

and the general
scarcity of natural
supplies of it

(49)

As interesting as were these hot ~~hot~~
springs and the story of salt in the
~~heart of the~~ Congo, we did not have time to tarry
long. For enroute, to Kisenyi our
next port-of-call where we were due
on the 12th we wanted to get some
lava samples from the 1953 eruption
of Mt. Nyamuragira. The Congo lavas
are different in their chemical composition
from those elsewhere in the world, and
Dr. Foshaq, our head curator ^{of geology} at
the time was especially anxious to
~~have us get a few samples~~ ^{obtain as many different as possible}
~~that we had to get~~ A special permit
for the purpose ^{was needed and} ~~proved~~ well worth the
time taken out of the morning's jour-
ney to see Major Gilliaert, the chief
game warden at Rumangabo not
quite three hours out of Rwindi.
~~But for~~ ^{without} the special guide he assigned
over

125	400
375	

To us we would never have located the flow. It was well back in the woods, several miles off the road over a very rough and tortuous trail, the last stretch of which we made afoot.

go on to
50

Goma

Goma - B. tembo
mining center

Irura Alt 3,073 ft.
Benia has now taken over
in importance

Kaseny → Lake Albert

Fisheries

Road climbs San Ndele to
Bogoro marvelous panorama
from mountains to Lake Albert
drops 236 feet.

one way pt way
telephone directs traffic

There

but on way to
Uvira beats

gas, drums

Beni, hotel with tanks
in court rooms
off corridor
Pop.

Rumenzuri hotel
149 miles from Kasenyi

Bunia. Pop $\pm 6,000$ } 5,081
Europeans
242
10 miles to Kasenyi Bunia palace hotel

← Babira native women
Village 2 miles with disc in lip.
from Bunia
last of plateau women
upper incisors removed
practice is being abandoned
when these other native pierced lips
are dead maybe for bones and ornaments
no more. ? ear

Butembo. 32 miles from
Pop N 3,430 Beni.

Europ. 139.

No hospitals.

Grammar school.

Gampala Apr. 29
Garamba Apr. 30

Leopoldville Apr. 13-15

Nioka May 1

Red. Gray Kasens May 3

Doyo May 4

Ishango May 6.

Boni May 8 Pygmy vll.

Rwindi Camp May 10

Green Lake May 13

Lwiro May 15

Mia-ya-mso Bat cave

Uuvira May 23 May 16

Obtrida May 23

Kagera Park May

Juba May 28. 24

Bu-Bu to Bapechel.

Kak (Nile) June 2

Salem Bunge (Nile) June 3

June 4
Jebelam (Nile)

How small the world
is for the travelled man
in Swiss in the Belgic
Congr. I met Alain
Bernhard and his wife
He had crossed the Atlantic
Heard him in Paris

Crossed the first time
was Gifford Pinchot's
idea of I remember
well the Sunday
morning of Sept 1st in his
house on Mass Ave
dining the evening
(and some) of members
first the heat in the refrigerator
at

Collecting: other than mites

collecting on road?

on rd to Paulis in (17) (18) ^{and} (19) (20)

Kasenyi fish see (35) picking out fish; seining in lake.

Ishango fish. see (40) picking out fish on dock

Hot springs out of Rwind: (50) May 11

Lava¹⁹⁵³ (50?) (51)

Lava flows Green Lake (54) (55)

Kitwa skinning animal (25) pt.

" at Nioka (No!?)

Uvira seine hauls
going after Limnocardina

Guramba Park

(3)

(28)
(29)
(30)

Animals various, and white rhino
on road to Nioka

Monkeys-birds-people after termites to eat.

Collected in small stream

(32)
(33)

May 1 Nioka hot water for bath & shave

(34)

May 2 Nioka Res. Station native village before at

(35)

May 3 Kasenyi Fisheries seining in lake shrimp.
Looking over Ruindi plain, rift valley
maribou storks

May 2 Bunia Hotel, rain - rainbow, ~~hot~~ Spanish style pavilions

(36)

May 2 Bunia Market, old fashioned social gathering
Ubangi cranes | morphological than
Leo. market, more primitive.

?

May 3 Mt. Hoyo, Bat caves local King Solomon's mines
Flowers Guest houses view, water fall

May 4

Unique place - giant tree - army ants.

(37)

May 4 Mutwanga - glorious sunset through trees
4hrs from Hoyo
stream by hotel = swimming pool
truck by guest house

(38)
(39)
(40)

May 6 Ishango (Albert Park) animals Hippos best.
storks & pelican line + hippo
Elephants
May 6

(40)

May 7 Ishango Fishery, net making nylon. Fish on docks.
Have developed lake fisheries.

Ishango, Mutwanga to Beni ^{3 hrs drive}

(4)

(42) May 7 Arr. Beni in rain

(43) May 8 Pygmy village
houses
candy

~~hard dance~~ ^{sound}
~~breasting~~ Women's dance
elephant dance, with large spear.

(44)

May 8 Picha leper colony

(44) May 9 Butembo — 11:30 a.m.
main street in rain
→ Lunch among the tree ferns

Guest houses
Flowers,
Birds eye view
Native village

View across valley, rift valley great game
plains
2:50 — 2:55 p.m.

(45)

(46)

(47)

(48)

(49)

May 10 Rwindi Camp

lone elephant
pelicans swim, past hippos.
elephant herd passing
through trees.
water bucks, buffalo herd.
running off.
hyena, wart hog.
impala.
monkeys running

huts houses - mess hall.

(50)

May 11

Hot springs *

stop at Rumangubo

{ Did we get
"soldiers" drilling
guides }

(51) ?

? Lake Vert (Green lake)

? Lava flows May 13

53 Lava flow

8:00 a.m.

Stop at 53 Lava flow
approaching Goma

51 ~~May 11~~ Kisenyi - Goma - Bugoyi Guest House

54 } ~~pt. May 12~~ ^{afternoon} Goma - head of navigation on Lake Kivu
55 }

52 ~~May 12~~ ^{a.m.} Watusi dancers (have sound)
53

54 } ~~pt. May 13~~ Lava flows of '38-'48
55 } ~~May 13~~ Bukavu = Lwiro

56 ~~May 15~~ Chapin and pygmies making fire

57 } ~~May 15~~ Chapin and ^{Congo} bird talks
58 } ~~May 16~~ ^{pt.}
59 }

59 } ~~May 16~~ ^{May 15} Mites Lwiro + Mulungu } ^{pt. 59, 60, 61, 62.} Mite sequence
60 }
61 }

62 } " ? Mulungu
63 } ~~May 17-18~~
64 }

65 ~~May 19~~ Mulungu - Bukavu } views & roadside scenes
66 } Bukavu Aztrida }
Watusi at Church.

67 } Aztrida, -watusi women
~~to May 21~~ + ? 22'd

Alt 4776
Kisenyi Bugoye Guest House

Uvira - Lake Tanganyika

68

Some scenes on road to Uvira,

69

Laboratory

70

Dredge boat.

71

Afternoon down lake shore.

72

73

May 22

Sunday morning seine haul.

{ Also some cultivated fields May 22
terraces ala Incas over sumany hills.
Auto caravan on road

74

May 23

Azrida to Gubiro

75

Lake Mohasi

"Swiss" landscape en rd to Nyanza

5:35 p.m.

Autos on road.

Kagera Park

76

77

78

79

80

May 24

hippos - zebras - impalas, water bucks.
Lunch stop. Crocodile nest site
hippo pool.

odd pods from tree.

#? protection of huts against animals.

thought
this was
at Ishango

Congo Exped. Apr. May 1955 Monte reels ¹
Brussels reid by Van St. reels

1x Going over Exped plans with Dr. Victor van
Apr. 7. { Straelen, director Inst. Royal Sciences Natural-
les, and president Inst. Parcs Nationaux,
Baker, Schmitt, van Straelen, maps.

Leopoldville

4 3 New and 4 old in Leopoldville
Apr. 16 April 15 250,000 natives,

pt. 1. The catacombs & ref. to Stanley pool
Apr. 13 and history it represents.

G. to Brazzaville

1 River crossing, ferry, far shore
2 customs & vegetation (like S.A.)
Apr. 13 drifting, vegetation down river?

5 Return to Palace Hotel porches open dining
Apr. 15-17 room no flies, mosquitoes or vermin.
no screens!

Relative size of Congo.

Put map here
everybody else
puts it first.

5 Glimpse of river steamers.
Apr. 15-16

5 + 13 Air to Stanleyville, air views of river
6 Coquilhatville air port
Apr. 17 Lunch at Libenge, stop at Lisala.

Stanleyville

(2)

- Age old Wagania fisheries prosecuted to
(6) ^{Apr. 18} day as ~~before~~ white man; no nails wire or
(7) ^{to} rope, gear all forest products
(8) ^{pt. 5} Piling, nets, knots. Women and children
we have Wagania sunset washing and playing
While men are at work fishing and repairing.

(13) ^{Apr. 22} Pastime Canoe Races (Sound?)

(10) "Matubish" crowding & pay off.

(10) "Women keep home fires burning
= did with hot pot. =

Sorcerers with doctors, chiefs Oscar said.

(11) ^{pt. 8} Accommodations at Stanleyville
^{pt. 8} + down + street scenes.
^{pt. 8} str. arrives ^{Apr. 22}

(14)(15)(16) ^{Apr. 23} Yangambi Research Sta. Agricultural
^{Apr. 25} sunset (15) largest tree (15)
(13) Bus Congo ferry going (What about coming home?)
auto repair (17)

(17)(18)(19) On road to Paulis, collecting
(20) ^{Apr. 26} villages, roadside musician (20) (Sound)
^{Apr. 27}

(21)(22)(23) ^{Apr. 28} Mangbet dances, formerly war dance now social
^{Apr. 29} men, women, young & old

(24)(25) ^{Apr. 29} Palm oil, nuts, goats, skinning animal.

(26)(27) ^{Apr. 29} Gangala-na-Bodio elephant training sta.
^{Apr. 30}

(31)(30) ^{Apr. 30} "retreat" drill.
same animals & bathing elephants young (sound)

The Neur
^{Edwardian}
E.E. Evans-Pritchard

Oxford 1940

over the see also pp. 40-41
p. 123 1st para.
'Opposition to their neighbors gives'
them a consciousness of kind and
a strong sentiment of exclusiveness

..... Their feeling of superiority and
precontempt they show for all foreigners
and their readiness to fight them are
a common bond of communion,
and their common tongue and values
permit ready inter communication.
pp. 136 - 137.

pp. 192 - 193 The Lineage System

p. 260. "Initiation rites more
than anything ^{save} ~~else~~ language distinguish
Neur culture and give Neur that sense
of superiority which is so conspicuous a
trait of their character"

8123.

"New people see themselves
as a unique community
and their culture as a unique
culture"

[Close economy, some hard
ship and privation, build a
sturdy, honest, upstanding,
cooperative people

Too easy a life, shiftless
unthrifty, double talking and ^{service} ^{boas}
double dealing (your glibness, get
you ahead) not your intrinsic
worth and integrity ^{all bootlicking, not}
^{lack of trouble}
^{making.}

The Anglo Egyptian Sudan
edit by Count Gleichen
London 1905 2 vols

Vol. 1. p. 20 + 21.

The Sudd; Fuel; Nue ✓
Climate etc very good.

Set again

Africa Speaks

Paul L. Huetflier.

Ush. E. Winston Co. Phila. ¹⁹³¹

p. 310 white rhinoceroses

p. 329 pygmies of the

Ituri Forest

[notes on family life]

p. 353 Heart of the Congo

is mostly about French

Congo; some words about
Belgian

In the Horrid Sudan

H. Lincoln Tangye

Boston, Richard G. Badger

The Gorham Press

1910

pp. 119

p. 135 Tomorrow (^{Spanish} ~~Almanaca~~)
→ Bukra Mangwana

p. 155 Fish spear shaft is
bent by a cord.

[? to make up for retraction?

p. 182 live like animals ^{explains} African life

pp. 208

pp. 230-231

pp. 240-241

pp. 278-279

Seligman, Pagan Tribes of the Nilotic Sudan.

Sudan vast country about a million ^{miles} square
northern and central provinces easy of access and
fairly well known and partly Arab by race.
but further south in provinces of Bahr el Ghazal,
Mongalla, and the Upper Nile in the hilly mts &
southern half of Shung Province the indigenous
population is pagan. in some parts mts
are honeycombed with
caves.

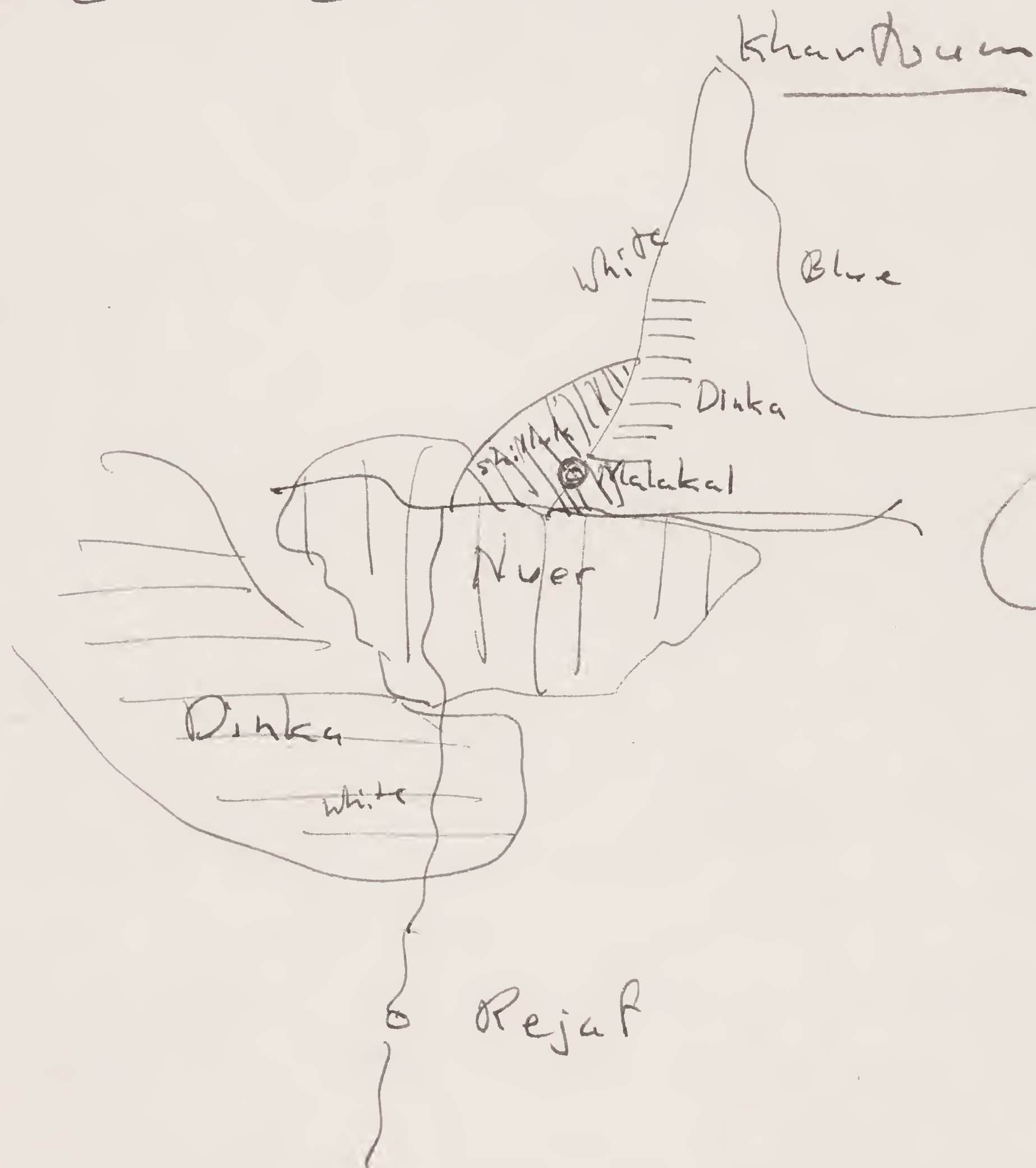
impenetrable marshes
or dense forests.

dolichocephals
mesocephals



Mohammed Ali conquered the Sudan in Egypt
 in first quarter of 19th century. ^{that western civilization}
 Fifty years later during period ^{and came into} with the hill negroes.
 of great explorers Speke, Grant, Marnor
 that any ^{reliable} real knowledge of the character of the
 various tribes has produced, & of areas occupied.
 Further progress was stopped with rise of the Mahdi.
 not till 1900 after reconquest of Sudan that
 investigation became possible.

Without understanding religious beliefs can't
 understand tribe (no aspect of tribal life can be understood)



segregationists
 the blacks in
 Africa are

dolichocephals ① The Nilotes Shilluk, Nuer and Dinka.
live + move + have their being in an atmosphere of
cattle. (from east of great lakes)

② Nilo-Hamites, such as the true Bari,
various Lotuko speaking tribes

mesaticephals are Fung-Nuba peoples on one hand.
and on the other the South western group
of which the Azande are best known.

Sudan about a million square miles, 1200 miles from N. to South. ^{14 provinces}

2 great divisions northern Muhammadan & a southern Pagan.
but nowhere clearly defined.

Area. dealt with Nile basin south of 12 N. to Uganda border.

Great plain.

Nile which flows at 1,230 ft above sea at Khartoum is only
38 feet higher at its junction with Bahr el Ghazal (Lake No)

135 " " at Bor and but 1,499 feet at Gondokoro
1,100 miles to south.

Hence the vast region of sudd south of Lake No
and the persistence of high grass and swamp scenery

True negro represent one of the primitive African stocks.
tall dark ^{brown} skin verging on black, wolly hair.
moderate dolichocephaly, broad nose etc.

but only in limited numbers if at all in Nile where so many
present evidence of Hamitic admixture ^{drainage basin of}

Yet strangely enough these mixed tribes exhibit darkest
skins + tallest stature despite moderate stature of
most Hamites

Hamites long headed

Asiatic medium height.

Arabic

coppery red brown, or yellowish skin.
hair generally wavy or frizzy, never wolly

Hamites in successive waves pastoral people.

Stature greater than either agricultural negro.

parent stock is one of results of mixing of Negro & Hamite.

Schweinfurth Munza, The Mangbette kings

Magic p. 25

The Shilluk, narrow fringe on west bank
from Kaka in N. to within 30 miles
of Lake No in south.

From Kodok to Taufikia Shilluk occupy
East bank of Nile to 35 miles up Sobat.
Flat grass country. dry in dry season
swampy in wet.
Cattle principal wealth.

Fergusson p. 184
Dinka
1927 Nuer killed
Fergusson

40,000 in 1903. 12,000 head cattle. 64,000 sheep & goats
Shilluk poorer than Dinka in cattle.
small series of hamlets. few homesteads.
huts with fence of millet stalks.

Dinka at Bor
Shambe

Country largely swamp in
wet season, hard-fissured
clay soil in dry

runs to forest

Until recently Dinka
smelted iron they required

Nuer inhabit swamp region either side of Nile.

Bari. south of Dinka country
Near Rejaf

Apr 17. Thurs.

Thurs

to Royal Inst. (Museum)

Had lunch with
Capart &
Mollusk man

Baker saw Dr. Jean Cooreman

I saw Capart and we all

→ went through new Museum Building.

interested in beetle
mites
mites assoc. with
beetles

Bacteria food for
copepods

Have we run Ernest 1925 coll diatoms in wash.
Ernst

Apr. 7. Lv. Brussels for Leopoldville.

Apr. 8^{Fri} Flight 501

woke us up at 5 a.m. (75° Temp. in Kano)

Friday Kano, Nigeria (5424 miles from N.Y.)

Stewardess said when asked how hot
"Hot, hot"

Fri

Over equator, champagne

Apr 8 Arr.

Leo. at about

11:00 a.m.

has due

10:30

arr. Hotel @ 12:30

At 11 a.m.

Bob Yost met us at airport

were due @ 10:30 sunny bright day.

12:30 - It cleaned
up, lunch till 2

McGregor duffe at 2
got there 2:15 stayed
till 4:30

Most of afternoon

with Mc Gregor

2:15 to 4:30

to Palace Hotel @ 12:30

Sunny bright day

Apr. 9 Saturday
Dock all morning, with Yost to
get air shipment out of customs.
Had to dig out guns ^{but} and only had to
furnish list of cameras, by number
should be on original list.

@ Customs

1/2 day light rain

Sat. nite: Dinner ^{+ cocktails} at Mc Gregors

Apr. 10 Sun Cloudy, hazy warm 11:30 = 82°
Unpacked in hotel room. High about 84°
Sun
unpacked Asst. to Ferdinand de Bock Botanic Garden.

Flight
501 10:30 a.m. late getting in
Sextons arrived. hottest day yet!!!
were also late

Apr. 11 Monday Hottest day yet. 96° in shade at 4 p.m.
5:30 - 6:00 most beautiful sunset
88 in hotel room.

Saw Sabena re Stanleyville air shipment. because boat freight
would not arrive till 20th

Sextons arrived hottest yet

about last After 7 p.m. to Arab market. big head of yesterday,
off plane bought drummer + figurines.
began to think hus gone
they'd missed it

Got home just before very heavy drizzle
heaviest seen in years.

Apr. 12 Tuesday drizzly rain off and on most of day.
Tues (80° in room last night)
evening remarkably balmy.

Sexton spent hours listing nos. of camera & lenses.

Most of ^{a.m.} morning at Consulate, till ^{talking over plans} 12:15 or so.
but met consulate girl in bank who took
us out.

Sexton did
not have
Sudan
visa
so Consul
had to
arrange

Then took me to Farrel line agent.
Miss Levin

After supper to Arab market.

bought 3 face masks (2 for Bredin)

That ^{early} evening, to Oenwarren to talk to ^{halla}

Apr. 13
Wed

Lv. 8 a.m.

For Brazzaville ^{cross river in 20 mins ± islands of Stanley Pool.} 1/2 day

Standard must for all tourists.

numerous ferries

^{tropic} Vegetation + all

Native less hurried

Physique of overworked underfed blacks is remarkable

Approach to other side reminiscent of Guayaquil, Guayas River crossing, Baobabs (Kopok tree) natives; dust color + sunshine
Older hotels with wide porches.

Scattered trees against a back drop of low hills.

(?) in much same latitude of Guayaquil.

only diff in building, "skyscrapers" here
Native with shirt of holes at cataract, wanted give him mine.
Saw cathedral Congo Boat man's song
Had beer in restaurant by landing.

Back to hotel for lunch.

Wild water at cataracts

After hiked all over town for ducks.

The various names used for them.

Congo Boatman's song

Cathedral (church of unique design)
Saint Anne's
Stadium for soccer

Afternoon in Ferdinand de Bock Park.

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM
WASHINGTON 25, D. C.

Dear Mrs Carlisle, It is high time
that I acknowledge your good letter
of now, weeks ago. This is about my
first chance to do so.

How wonderful that
you still have the original negative and
prints. Too bad you were put to the
trouble. Dr. Dohrn, I understood
was just asking if it would be al-
right with you folks if I were to
republish your very fine photographs
of the dromids you studied. He had
the original plate of eight photos
which you must have mounted, and
even offered the electrotypes from
which the published plate was printed.
The mounted photo's we had copied
here, and got remarkably fine
results.

I thank you for being
so willing to let me make use of
them. I wish that I could be sure

that the publisher, the Univ. of Michigan
Press will use them. It so happens
that I turned in more illustrations
and text than they feel they can use.
I have not yet seen what trimmings
they have done. He edited me
was promised this month but has
not yet arrived.

Apr. 14 Thursday must have been 96°
~~notes~~ since sextans arr.
Visited Geol. Survey Dr. Corin
and Princess Astrida Med. Research Lab.
Dr. Evens Have about \$300,000/yr.
Wonderful places; and equipment.
no stint of instruments.
with all accessories

Geol. Lab. Dr. Corin gave me map. showing 32, 48, 53
flows

Had to rush back to hotel from med. lab + geol
for few minutes wash up.

Lunch at American Club. The three of us
in Zoo restaurant. gave fulls

Robert L. Yost

Dinner at Yosts

Mr + Mrs Morrison
mission fulls from Kasai
country

Lynham ^{Eng.} tobacco
dealer

Apr. 15 Friday

rain 1st half day

Woke up to rain on porch; in a.m. light drizzle (or mist) but does not interfere with work or getting around. But during night Sexton says heaviest he ever heard. (Did not wake me tho).

Rained 1st half day

Sexton's and Baker ± all day tour of town

Tour of town for most of day.

Sexton's went to ^{Native} market to photo.

Baker who stalled around & said he would not go; rushed off at last minute

I was left alone to get shipment right for air lift to Stanleyville ^{Sweating fiber cases into crates}

~~Spent 1st half day in airport with Yost & LeClerc getting air shipment thru customs~~

"General Firmene" sports center

Native quarter (City Indigene) 250,000 natives.

Book one crate for shipment home to Halle at Cenwarren (Arr. Wash August)
Took Apr. 15 to mid August. 4 mos.

Apr. 16. Saturday

First half day ^{with Yost + Le Clerc.} getting air shipment
off and customs at airport.

— Took Yost (rather he drove ^{me}) by to meet
Walker at Cenwarren

Sextons spent most of day with
Barrah (P.A.A.) to Falls ^{again} and
went back to Country Club.
+ swim pool.

Apr. 17 Sunday

Flight to Stanleyville

most typical of all
Congo towns.

This a.m. up at 4 a.m. at airport at 5; off at 6 a.m.

was just about pitch dark on leaving then
got suddenly ~~as~~ light, as it gets dark evenings

6:15 passed "cathedral" rocks

7:00 over Lac Tumba

Roads through vast
open spaces (clearings -
fields) dead end in skin-
ned off areas, w. in horse
or two. rectangular
areas for villages
along roads
cultivated
patches

Coguilhatville 8:15-8:45

was remarkably cool

while here short squat U.A.T. bullet shaped
plane came in with 40-50 people aboard
basket ball team, - all white group.
2 priests white robed got off here

Miles and miles of forest and swampy
areas stretching in all directions
widely scattered villages, isolated house
or two.

River like Amazon, lush green islands every
where dividing river into numerous channels.

6-40.m. Before and after Coguilhatville huge red
mud banks - river and forests

Libenge lunch stop. 10:30 - 11:15

Lisala

12:45 - 13:05

Arr Stanleyville

4:00 p.m.

TB Sabena
guest house

Here Thornton met us at air port set up
till near midnight talking over plans; he urged
us to drop Ponthierville etc. (dropped watch on tile floor) met Oscar // first time

Wagenia Fisheries near 7th Cataract + Arabized
Apr. 18 Mon ran around shopping,
alcohol, ^{drive} ^{etc.} ^{coffee for sex}

Had breakfast with Thornton + Oscar at 7⁰⁰
talked over A.M.I. and car there
which we did not get.

Saw governor in a.m. The group of us
got 4x5 photo

⇒ Wagenia Fisheries bet. 3 + 4 p.m.
when they are most active. ~~get~~
before getting there multitude of
Canoe dwellers (got some specimens)

Wagenia Fisheries (Boy missed phone call and so sat around near
Apr. 19 Tues ~~Back to~~ 3 days worrying + waiting and doing nothing
for or about expedition

Tshoppo a.m. To gorge that was Tshoppo

Falls are putting in hydroelectric plant as
so Falls were more or less dry, got couple
of crabs

^{photo'd} On way passed roadside artist
Down to docks at 19 a.m. at 9 back to
hotel.

Hot and sunny day got specimens

⊗ → Went back to Wagenia Fisheries
Hot day, but men were ~~not~~ repairing ^{and} ~~nets~~
improving traps. ^{tying} ~~splintering~~ vines to gather for
ropes, hauling beams, pointing stakes + piling.

After 5³⁰ p.m. Went back to Fisheries
to see nets being lifted. Got Flashlight pictures
Every thing is natural material

Hugenig Fisheries

Went by to get "village" street scenes

Apr. 20

Wed.

Boat with boxes due

All Forenoon at Hugenig Fisheries
78° in room at night

Str from Leedsville came in this day a.m.

Then went fisheries for street scenes and medicine men also before lunch

Boat with boxes in

But could not wait for unloading

Men work till pitch dark. (Got more specimens)
Lift nets, sometimes man has to go under water to release line holding ^{bottom edge} down.
Also climb into nets to throw out debris and to recover fish. get quite large fish and medium sized small ones go through

Our ship came in the river

There are several "guy" ropes to each net and so can be variously ^{and adjusted} oriented.

Children brought me lot of frogs, + 3 large crabs

Fishery is ages old, before coming of white man and still uses only natural material from jungle.

wooden "braces" of piling from our point of view were all in wrong direction with flow of water instead of against it. But ^{innumerable} guy lines in every direction hold every thing tight.

While men are improving weirs + nets women are washing dishes (pots + pans) and clothing, bathing and using hoop net for fish. along shore. Else where along the shore

Hugenians crack rocks + dig sand for sale in town Thoroughly industrious people

Got fire side picture Mabiche (give to me)

smaller fish

Apr. 21 Thursday

Forenoon at customs, + all aft.
Air out

Getting boxes to ~~load~~ in the truck.
and in pt arranged + unstowed
unpacked and at film

over hauled specimen
from Falls + Hageria

Baker worked in his
mites

Apr. 22 Friday

Roy and Buddy took sound
and movies of canoes in rapids

Day of
Leaving Train

Packed up ^{so as to be able} to leave ~~for~~ ^{after going to} Langambi
moved ^{boxes} gear into Sabena storage
photo-gear + extra suitcases into
Oscars room.

Apr. 21

Customs all day
Forenoon + afternoon
letters most of night

Apr. 23 Saturday at Yangambi

Lv. For Yangambi 8:20 a.m. } Kl. 32620
Stopped by bank.

got off on ferry } 9:15
at Stanleyville } 3 hr. run
12:15 at sta.?

diff = 196.3 kl
= 121.7 mi.

Ar. Yangambi for lunch

Kl. 32758.7

32758.7

Drum at
#32671
on rack

? 121 miles
1699 kl. ?

Met by J. Fraselle, gave us briefing
after lunch took us to labs, and elsewhere in ^{h.r.} ^{ear.}
Soil ecologist Dr. M. E. Malaguer { has trouble get-
ting soil mites
identified
Entomologist Dr. J. E. Decelle, has ~~no~~ mite
problems, except in green house coffee plants
but these were sprayed shortly before our arrival
Saw entomological collections took pictures, beetles, spiders.
Bird that distribute seeds.

Wonderful location = equal to Mt Vernon
on big bend in river

Substantial adequate buildings, extensive experimental
gardens, animal husbandry, domesticated buffalo.
Hospital for natives ^{Dr} de Smet

Apr. 24 Sunday at Yangambi

Called on rice director Dr. A. van Daile (Darle?)
at his home, pet birds in cage. Beer

Went to hydrobiological station, saw
fish collection, pond culture
Albino native in stream
Giant tree, botanical collection.

Lichens.
shelf fungus
soil samples

Coffee, rubber, oil palms
Bird coll., plants, mammals.

Apr. 25 Monday ⊗ Return to Stanleyville

Came from Yangambi. $2\frac{1}{2}$ hr. run

Had to make ferry before 12 noon
shuts down bet 12 and 2.

Half way back to town found ~~little~~ "myriopods" in road, near sides of road
very many running back and forth, yet not
too crowded.

Back to Sabena guest house about 12
noon.

Pink clouds in clearing sky at daybreak.

Tried early start but Roy's "die" (butterfly) held us up
de Smet's practical joke got away about 9 a.m.

Went shopping in afternoon for supplies
paint and brushes. (for sign ^{canvas} on side of truck)
Moved things from storage into truck
Very warm (? frightfully hot day)

⊗ Look Wageria sunset with Buddy.

Apr. 26 Tuesday

Start auto trip.

Lv. Stanleyville

9 a.m. (after bank & other errands)

"Stanleyville to
Nia-Nia
200 mile run"

Can do 70 kl. per hr.

Kl. 51970

"Lunch at Km 229
"5 hrs before lunch"
"2 hrs in afternoon"

Rds. red ribbon of adventure through
of green "canyon" walls.

coll. at
Batwasende bridge
river do a deep
and swift
and collecting."

few shrimps

(got a crab little before)

(just past 186 km.)

soil sample

(156 km from Stanley)

Shrimp

146 = 96.72
156 = 99 mi

Kl 52126

Before Plantation de Batuma native
with three little deer they'd chased
in net.

not all beer
and skittles
efficient native
help

Shrimp at

10 km (= 6 1/3 miles) before Batwasende bridge

Stop at repair shop.

welded a shock absorber.

spent 1 hr. here.

Shrimp at

52205

52215

Kl. 52215

30 = 18.44
mi

3:30 - 2:30

Shrimp at

52245

Arr. Nia Nia at hotel

late for supper here. Kl. 52328

Collected 2-3 x en route

ruin bet. 5:00 + 5:30 a.m.

Bats under eaves of

flying above
lights we were
afraid
to shoot around hotel

Roy and Oscar

Roy had turned in

When man demanded room?

refused to move?

Went for drinking water for canteen

a water tap basin bet. kitchen & dining room

(running water + spigot) every body was

horrified insisted I take boiled & filtered water.

even so I used tablets.

Nia-Nia / Apr. 27 ^{wed} Lv. Nia Nia 8:15 a.m. slight misty rain. Kl. 52328
to Paulis 200 miles 5 hrs
lunch in Paulis. Service cars

Four snails from hotel grounds

@ 9.50 a.m. 19.8 km

~~52349~~
52349
= 52344
from hotel got shrimp + fish, few insects and 1-2 shells.

arr. Wamba.
we lunched in Wamba
Lv.

Territorial capital

12:30 p.m.

111 = 68.97 mi

Kl. 52439

plus 2.477 = 20 km

= 52459

Lx 2:00 p.m.

Coll = Natives husk of the soil oke =

20 km ^(±?) to Obe Plantation and shrimp fishery.

Plantation Obe + " " 20 km. from Wamba

Obe 52 miles from Paulis.

= 83.68 km

Bridge. before is just 1/2 mile

Sign on Bridge Territoire Secondary de Manghedu.

Paulis 33 Wamba 111

Paulis Wamba 141

Coll. 2x on road.

Calif. like climate and scenery

Coll = 35 km from Wamba got number small fish caught 2 large ones

52410

30.45 mi

522/88

52439 + 111 =

49 km = 30.45

52459 + 111 =

24 km = 18.01

Arr. Paulis

5:50 p.m.

Klm. 52571

32 km = 19.88

Hotel Pontinière

Continental

Nice European style place
I would say: almost German in some ways.

Calif. like climate and scenery

Nia-Nia

Wamba to Niangara 135 miles

Nia-Nia to Paulis 165 miles (I have 243 km. 151 miles)

used 160 fig.

Apr. 28 Thursday in Paulis and to Niangara

Mangbetu dance Paulis 10:10 am.

all over at 11.

young and old enjoy it to utmost
though staged for pay (3,000 francs)
bought curios in gov't run shop.

Necklace to princess

ran about 24 km.
= 14,91 m.

Lx. Paulis. 1:30 p.m.

bought food from boy just before leaving.

52595

"4 hrs. run to
Niangara"
Did it in 3.

135

Palm (oil) nut buyers loading
truck along side of road.
(photo taken in p.m.)

52635

40 km = 24.85

40
31
29
37
157

Bridge before sign marked

"Territoire Niangara."

52666

31 = 19,26 m

@ 3:05 p.m. natives with little
round hats, some with feather inside
of hat, [African Tyrolean style]

Portuguese
Barracks

Little round conical roofed houses
straw, rather than thatch roofed

52695

29 = 18.01

Arr. Niangara 4:30 p.m.

Terrific storm this night
Oscar & Roy slept at Mission

52752

59 = 35.42 m

Apr. 29 Friday

several runs to mission yesterday
actually got away today
7:00 or 7:40 back

Lv. Niangara 6:30 a.m.

52764

186 km
Niangara to
Gangala
I have 179

after breakfast Oscar Roy had

Slept at mission.

men have bark cloth
women Nek bwe

(ballarinas skirt)
come to Mangbeto
region long heads

12-74

skinned animal

Huilerie "Mbengu"

forenoon

Michael P Michaelides
Huilerie "Mbengu"
D.S.P. Paulis

rhythmic song while shovelling in huts.

Soil samples #43

#38 dipper netted from stream
near Huilerie Mbengu.

86 km from
Gangala.

Dungu. Soil sample #45

Territorial capital.

red Acacia in flower.

(Governors Bldg as described.)
medieval

52857

93 km =
57.78 m

86
52
12
69
2
81

Thornley says
a 2 hrs, run 160 miles
Niangara to Gangala
I make it 110 miles

Arr. Gangala-na-Bodio 11:20 a.m.

52943

#99 crabs
from Gangala

Gangala sign reads in "Heart of Africa"

Bought food at Cantina.

86 = 53.44 m

Elephant training center!

Bath & elephant song (have recording)

Have "pet" male giraffe female killed by leopard.

"zebra, water bucks

Cow gored by Buffalo.

(said & elephant would not plow unless extra male
stood by.
haul wagons.

Apr. 30, Saturday At 2 a.m. doors banging high wind & rain
thunder; sheet lightning

terrible
down
pour

Got up at 4 a.m. to
4:40 a.m. made start for Garamba Park.

Truck, jeep
in Park.

0 8236

0 8199 (9:15 a.m.)

= 37 kl.

= 22.94 miles

52 kl. (32 miles ^{to Park} from Garamba) kl. 53948

did 35 ^{to 36} km park = 21-22 miles

5 kl = 3.10

90 feet
Rhino
8m 4 feet

Had lunch at Mischa's (Mr & Mrs and baby)

Left Mischa's at 2:45 p.m.

Crossed river Aro at
? Aro or Aro?

54035

87 = 54,060

2nd ferry in
Garamba Park
= Garamba River

Photod elephants
second time
(earlier today)

May 1.

Sunday

Fixed

First flat at 3:30

Goto - Nioka Rd. @ 3:15

This is where got shrimp in seine

Photo'd kids on road
Stopped for gas (to await truck from way behind)
Passing auto helped us to Scull. gas.
have photo of rear end but with trunk tied up.

Actual Start 5:15 a.m.

Kl. 53078

Lv. Gungula 4 a.m. for Nioka
had coffee to start

300 miles haul

Rain all afternoon and night this day May 1.

Termites

@ 9:30 stopped for brunch.

in here from bot. of page

Worked small stream here.

"300 miles Gungula to Nioka" approximately

Km. 53459

saved specimens

80 km also from Nioka hit squirrel
before Nioka some had small stream.

on Faradje Nioka Rd.

Country like Luray hills.

Winding mt. narrow red roads

Mine check sh. 53230

Gungula near Sudan great level plain high grass covered with 6 to 8 ft grass

Monkeys
Birds
People in road } eating termites.

45 kilometers from Nioka.
soil samples & desk kid pictures

53078
45
53123

Arr. Nioka Km. 53539 ±

53539
45
53494
53539
80
53459



Check Sta to mining center
intermittent rains

53230

May 2 Monday Start 9:20 (20⁰ Nioka hotel in room this a.m.) Kl. 53539

Lv. Nioka via Nizi and Bunga for Bunia

"2 hrs run" to Bunia.

for INEAC. Stn.
Stopped photo his native villase & got soil sample

Nioka to Bunia approx. 75 miles

Photo'd crane in yd. vet. station.
at Experimental garden

Lv. ~~Nioka~~ INEAC. at 1:55 for Bunia soil sample 53599 Kl. ~~53599~~

reached Djugu @ 2:40 p.m.

Nioka to Bunia
191 miles includes side trip.
Bunia Djugu 15 1/2 miles.

3:30 p.m. ^{saw} 3 long overcoats on road.

3:40 passed Masumbuku.

3:45 steep climb.

4:05 no end Casuarina groves

rd like tunnel through trees. Kl. 53700

4:15 rounded hills like Salinas Calif.

Sharp turns in road.

4:30 Eucalyptus

too many trees on lower valley slopes

crossed (4:40 Riv. NGEZI.)

Country side like Italian Riviera

11 Kl. more to Bunia Kl. 53725

Heavy rain beautiful rainbow at Bunia.

Arr. Hotel Bunia Palace 5:00 p.m. (cf 4:46 above)

Snails from pack yd. this day + on 3d.

May 3 Tuesday
a 1 hr. run" Start for Kasenyi on Lac Albert
Lv. Bunia for Kasenyi @ 7:24 a.m. Kl. 53745

Rainy & cloudy, ~~at~~ bet 10:20 + 11:00
heavy rains all night.

pickled fish
in rain
in shed & rocks

Temp in porch 6 a.m. = 67°
at least 65° last night.
Bunia to Kasenyi approx 40 miles

Kasenyi
Start one way rd 8:02 a.m. Kl. 53775
Got lot of fish. (rain 1/2 day there; pickled fish in rain under open shed)

? Distance to
Kasenyi and
return 101 kl. = 63 miles

"could stay till 2 p.m.
at Kasenyi".

soil is
sandy
on my back

at Kl. 53881? 12:38
had come to Kl. from fish
village.

→ 53801?

Fish camp.
= [53795]

Back at Bunia ^{Palace} Hotel for lunch. 2:20? → 53846

Lv. at 2:20 p.m.?

? at 3:30 p.m. Kl. 53893

"3 hrs drive to
Mt. Hoyo"

Bogoro to Mt Hoyo
Via Irumu approx 100 miles

Ar. Mt. Hoyo 6:30 p.m. Kl. 53962

visited that evening. have flashlight photo.
Bat caves near by

Army ants, giant tree.

Bahema & Walendu semi shepards
beehive huts near Euphorbia trees
by huge gray rocks

May 4 Wednesday

Saw large bat caves (visit 200 hrs)
got specimen & 1 crab.

Saw water full ^{in puddle inside} got few shrimp.
from pool.

Pictures

Lv. Mont Hoyo 4:00 p.m. Kl. 53970

passed Eringeti village. 5:40

" 4 hrs

Mt Hoyo

to Muthanga

just about right

" Mt Hoyo ~~via~~
to Muthanga
approx 120 miles

4 hrs drive from Mt
Hoyo

Ar. Muthanga

7:45-8 p.m. 54148

(wonderful sunset thru trees)
on way to Muthanga

At Mutwanga
May 5 Thurs brief drizzle at 9 p.m.
labelled & repacked stuff.

little baby
pygmy bell
nut shell
bone clappers

Called on game warden
just before lunch in rain

at Mutsera

arranged to meet guide served drinks; beer & rum &

Lv. Mutwanga

@ 6.45 a.m.

Kint

readin a.m.

speedometer

@ 8:20 a.m. K1. 54148.9

54148

Repacked gear. smashed middle of
finger brown stripe in nail
to this day 8/29/55 still 3/16 in.
from end of nail

May 6 Friday

early morning drive along northern
sector of Albert Nat'l Park.

Lv Mutmunga for Ishango

(2 hrs drive)

up at 5 a.m. 5:30 breakfast Lv. @ 6:45 a.m. Kl. 54165

"Mutmunga
to Ishango
2 hrs. drive"

7:55 a.m. Kl. 54260

? mileage @ 11:30 a.m. 54257?

Fish Sta. 54265.

82
616
486
4.96

May 6. big herd
huter bucks.

Big elephant & mate

Kilos 9, 815 Fish. 10,151 individ.
22 days in April.

Ishango
got soil sample low pt. of
afternoon drive.

76° at 4 p.m.

night of May 6-7.

70° outside 72° inside

Saturday * Revisited Fisheries station, left my hat.
May 7 Lv. Ishango 10:30 a.m. Kl. 54270
went to Snoek's home with Buddy beer.

Rain off and on
from 11 a.m.

{ Got photo of hippo
walking toward water

to Mutwanga for lunch. (Extras 160A)

Called on Kint ^{in rain} on way { Met wife &
baby saw pygmy bell

Lv. Mutwanga after lunch. 2:15 p.m. Kl. 54356
3 p.m. Kl. 54384

Arr. Beni in rain @ 3:30 p.m. ^{crossed another bridge like photo}
(May 7) in rain. Kl. 54406

* Ran over to Ishango once more in a.m. 7:55 Kl. 54260
Lv. Fish. Stn. after drinks @ 9:15 Kl. 54265

Lv. Ishango 10:30 a.m. → Kl. 54270

Lv. Mutwanga (Ruwinzori Hotel)
after lunch. 2:15 p.m. Kl. 54356
rain from 11:00 a.m. off & on.

"Ishango to
Beni 3 hrs
drive"

approx 90 mi. Mutwanga to Beni

Arr. Beni 3:45 in wet.

Mutwanga to Butembo. 65 miles
45 km to Beni (I had 50)
105 " " Butemb. = 65 miles (I had more)

May 8 ~~Sunday~~ ~~3:30~~
~~Arr. 3:45 p.m. May 7~~ ~~Kl. 54406~~
~~Saturday~~

approx. 30 miles to Pygmy village from Beni.
Lv. Beni. 8:05 a.m. for pygmy village
v. Pygmy village? ~~10 a.m.~~ ~~at 8:30~~ Moera village (28 miles from Beni) Kl. 54409
~~Kl. 54432~~

Where are Becker's pictures?
Arr. { Dicha (Dr. Becker) 11:08 a.m. May 8 } Soil sample #65 30 km from Beni = 54439
Kl. 54432

Lv. { Dicha for Beni's lunch. 12:30 p.m. }

Lunch Lv. Beni (after lunch for Butembo) 2:45 p.m. Kl. 54467

2 hrs to Beni including coll. from coffee + guinea plants.
Last coll. (of 3 stops) ~~30 miles~~ Kl. 54497
from Beni.

most honey place yet Guesthouse
Arr. Butembo 5 p.m. on way to and rainy off and on all afternoon (got rain. picture in yard.)

Beni via Butembo to Rwindi (160 miles)

Butembo to Albert Park (Rwindi) 124 miles.
[would make Beni to Butembo 36 miles]

→ ± 54527
54536

May 9 Monday

had to wait
for car repairs

Lv. Butembo in ^{light} train 11³⁰ a.m. Kl. 54536

urged picture of main street in rain
(get it ~~under~~ over protest)

~~Lunch~~ Among tree ferns @ 12:20 p.m.

on Lubero - Rwindi Road. Kl. 54596

"6 hrs from
Butembo to
Rwindi"

did it in less

Lubero is 61 km
from Butembo.

Sandwich lunch on road @ 1:20 p.m.

by fern doaked valley road Kl. 54601

Could see across valley @ 2:50-255 p.m.

Dupont sign 153 miles from Butembo

Kl. 54689

Arr. Rwindi Camp. 4:40 p.m.

Kl. 54473

#66

Soil sample on hillside stop on

way down to Rwindi (Photo'd view)

(by km post 469 but this seems to

~~mean nothing.~~ to my records (from or to where?)

Out of Stanleyville Vici oango
railway (+ autos for hire)
to Uélé Country (hire a car)

Ituri

Kivu

Ishopo River + Falls
Lindi + Ituri Rts.

Night at Nia-Nia.

Paulis * Has good hotel
360 mi. N.E. Stanleyville
Early May. air clean and fresh.

Stanleyville a week
by road from Khartoum

Mangbetu tribe music + dancing

formerly bound heads of infants

Will arrange dance.

(get sound)

Akasi daughter
of chief best dancer
(Chief Tongolo)

Tom Marvel
the new Congo

Wide road Congo-Nile Highway

Elephant Training Station at Dangala na Bodio

Commandant Charles Lowers

Supplies elephants for zoos from Garamba Park

Annual Hunt takes place in February (dry season)

Uele
Country

Daily bath is a sigh ~~and~~
"spine shivering trumpets of ecstasy"

(get sound)

Turn off to Faradje to head south
to Ituri country

Poney Guides

road leads through high Ituri Country to Kivu

Stop a Bunia over night

On to Lake Albert

Albert National

Park

Tom Marvel, The New Congo, 1948

American West African Line (Barber Line)

New York to Matadi

Matadi-Leopoldville by rail

200 miles

Leopoldville to Stanleyville by Steamer, 1000 miles
(something over a week) ⊗

⊗ Cool. damp. mornings, blazing. sunny. afternoons, hot
and humid afternoons, and warmish nights
Rains continue, alternating with brilliant sunshine,
until well past Easter. (April morning p. 126)
In June the rains have ceased.

⊗ Blind fish in grottoes at Thysville 3-5 in. long. transparent
below Leopoldville on way to Matadi:

Matadi: one of few places in the Congo where one may
sleep without a mosquito net.

⊗ Every night steamer woods up { Get traps to hang
(5 hrs by air to Stanleyville over side
from Matadi.) } shapper cane in hbrs
enroute Congo.

Coquilhatville = Turkish bath atmosphere =
most important river steamer stop bet. Leopoldville and Stanleyville

Okapi

Woven fish traps of the Wagenia tribes

Above Stanleyville Congo is called the Lualaba

R.R. to Ponthierville

Arabisés

Wagenias Fish traps

Yangambi
125 miles downstream
from Stanleyville

Agri. Inst. = INEAC.
"Botanic Garden" here { well la.
collected

Diff. between

Rwindi and

Mutunga

Need something more
about Tilapia

for Congo narrative

Meliaceae age?

Get something on
height of Mahogany

Lingala

Corin = Volcano notes?

Belgian Geologists

Snake bite bite of 24th
Tied with string. cut with razor (Roy let me use. Das was)
sucked & scrubbed in hot water
loosened string couple of times.

Roy got Anzaert and an Anven
injected 3 times in fingers, 3x in buttocks
Tied up in mile of bandage. Told to fight with merchant
said did I see effect never, so must be
hemorrhaging & said hand would be black & blue
in a.m. (never did discolor)

25th Next morning no time for looking at finger, & I heard
told Roy by feel & swell it must be
infected & he agreed. said if it still hurt
in even would give me penicillin & ampicillin
I wanted to stop at Imbarra Hotel to soak
in hot water but was overruled, because of
time & stuck it out.

Got in 7:30 at Entebbe

felt he purposely let
me suffer all day
still said it
would clear

25th Soaked hand in hot water Roy looked at
it put on Bandaid & bandage. & gave
me "Cervogen" 8, 10, 12, drops 3 each.
had more than 424.

26th hand still swollen 6 a.m. 8 - 10 - 12, 2 - 4

every 2 hrs. 26th 8 - 10 - 12, 2 - 4
Then every 2. (27th asked
if I was eating said yes
back about 4)

28th in 27th well at hand 26th my finger &
well
25th really bad.

16 capsules.

27th

26th

4 w 5

10

24-25th
mm.

night of 25th
1-2

1 a.m.
lunch.
afternoon
dinner time. +
28th 3 a.m. 5

at day 2 hrs

8-10-12

I feel asleep like
Roy said he'd spend
in room
the night of
25th after
dressing &
pills

25 p.m.
Roy dressed hand
1-2-3

Roy dressed hand
26th
exam?

4 a.m. 26th fell asleep.
2-4 = 3?
night 26 bed at 2 a.m.

amie E. Little

Kapulu
Haff. Pond
arrange
auto trip.

24 happened
25 nothing done

26th
25th

26 a.m. (1)

26 (8)

27 4 (4)

p.m. (3) (4)
10 12 4
4. 6. 8. 10, 12
2, 4

4

4 to Gulu.
(4)

11

2 aspirin +
lacro.

Walter Robyns; Bruxelles (1948)

Les Territoires Biogeographiques du Parc
National Albert

Scott Elliot; Innes & Co. London (1896)
A Naturalist in Mid Africa

Gatti, Tom drums in the night (1932)

May 2.

Durugu at 2.40 p.m.

(2)

Kasenyi May 3 - rained all night.

Arr. + Lv. Bunia Hotel 2:20 lunch.

May 3. Arr. Mt. Hoyo. 6:30 p.m.

army ants bite me. before Hoyo.

May 4 various pygmies along road. Lv. 4 p.m.

Ishango on Lake Ed.
48 x 25 wide
Semilike lake
drains to
H. Albert

→ 5 Muthunga. some of birds at Ishango p. 43
on Semilike R. Ferry to fishery

May 6 Lv. for Ishango O.J. Kint @ Mt. Soro.

May Nite of May 6-7 = 70° outside; 72° inside

7th

Left ~~at~~ at fishery. Alice was sent
to me in Bukavu

Arr. Beni in Rain. Bought can lobster here (see m. p. 45)

May 8 Dr. Becker arr in Beni in rain

May 8 Lv. Beni for pygmy village.
Back tracked to see pygmies

May 8 Lv. Hotel at 2:45 a.m. for Butembo
mining center?

May 9 rainy down; Lv. 11:30 a.m. in rain.

Arr. Rwindi. 4:40 p.m.

May 10 in Rwindi.

Lv. 7:50 a.m.

ours of Rwind
Hot Springs 5/11/55

Chief warden Sta at 10:35 a.m.

→ Guide to Nyamaguiru 1953 lava flow.

Reach Kisenyi at 4:30

May 12 at Kisenyi Dance by Hosi
from Kasenyi at nite saw Lava glow of

Lv. at 8 a.m.

May 13 Green Lake see p. 1
Shasha + Muburaho
May 13 arr Bukavu Royal Residence

Going to Bukavu 142 mi.
Road by Kalehe cross flows
of 1912, 1938, 1948 erupts

May 10 Tuesday

~~May 3 Kasenyi~~
~~Shango to Beni~~

P. Baert took us through Park
Forenoon and afternoon with lunch
at camp.

Lv. 7:30 a.m. in truck.

Hyenas @ 9:20-9:25 a.m.

Birds @ 10:15 a.m.
on lake shore.

11:03 a.m.

06926

06957

Forenoon = 31 km.

42 km.

Soil sample

67 near hippo dung.

68 near pelican grd.

69 by hippo bend
where lions feed.

at 3:05 p.m. 06999

07063

at end after-
noon trip.

pt. 3 -

for afternoon.

? 8.5 miles for the
day.

31
42
64

137 km
for day
in Park.

~~64~~ km.

~~May 12 Pursuivates dance~~

May 11 ^{Wednesday} Lv. Ruindi. 7:50 a.m. ^{I + Bas + gun + kidna 1 km. loaded truck. 54737}
Pass. Mabengo @ 9 a.m. ^{Hot springs} ^{Repairing washout just learned of it by accident this a.m.}
called on Chief Warden ~~again~~
@ 10:35 a.m. Km. 54822.7

"Kisenyi with stop at Rumangabo
to see Chief Game Warden Major Gilliaert.
re lava" 1958 ^{Lava}

Cars to be serviced

Ruindi via
Rutshuru +
Goma to
Kisenyi

Didn't Roy of
Buddy take men
drilling (found no shells)
movies?

16 km. from
warden to intersection

Km. 54838

at intersection.

Lava 2 km from main road. K. 54840

? ^{2 1/2} reached intersection ^{again} ?
12:40 started for Kisenyi

~~Ruindi~~
Ruindi to Goma
= 140 miles

Goma altitude. 4,789 ft.
"Mediterranean climate no mosquitoes
or crocodiles"

May 11.

Arr. Kisenyi. 4:30 p.m. met Marshes.
at right on hill top - volcano fire.

Under May 12 see Bottom next page

May 11 cont'd
Goma & Lake

Wahisi dance for sound
shut eyes - haven't quite
libed sound track & pictures

While at

May 11

~~From~~ Kisenyi climbed hill at higher
+ saw active volcano Nyiragongo

7

Sangre in Ecuador remained

Beh. Goma and Lake but noarer Lake
passed through great 1948 flow
at north end (N.E.?) Kivu
and after that nearer Lake ^{he '38} flow

Goma to Bukavu 142 miles. Road by Kulehe
crosses lava flows of 1912, 1938, 1948 eruptions.
At that time 10 1/2 miles ^{at road was} ~~there~~ shut off and travellers
and autos had to take ferry across head of Lake Kivu.

May 12

Thursday

May 11.

Arr. Kisenyi

Bulger down on beach early
got a crab, in shallow water.

9:23 left Bugoyi guest house for dance.

Wahisi dance 10:15 ^{or say 15} 11:00 a.m.
perhaps 1/2 to 1 hr. 2000 frs.

Afternoon packing; ^{night} Bulberg pictures

Roy & Buddy went Goma in aft.
with Bulberg saw ships at docks
village in crater.

May 13. Friday

Sunny clear,
some clouds

Lv. Kisenyi. 8:00 a.m. K. 54993

May 13

Green Lake 8:45 a.m. K. 55013

"7 hrs
drive to
Bukavu"

Lava flows
1912
1938
1948

~~Undated~~ lava. 9:55 a.m. 55015

by autos. of group.
Pictures 10-10:15 Photos → 55019

Pl. flag.

Got 1938 lava but no sign. → 55024 =

near Macha

~~11:55~~ sign

11.55

55029 stopped for
Kivu lake picture.

Saki switch back; missed it

Shasta.

Ivory Factory Muburano

55035 Shasta.

Kisenyi via
Sake, Boban
dana Mission
Kalshe, and
Kavumu to
Bukavu = 118 miles

Overturned ref. truck 1:39 p.m. 55076 women with wood.

got 4 lava flows. 1938, 1948, 1953 [54]

~~May 13~~ May 13 Lunch stop @ ~~4:20~~ [?] overlooking lake.
Left " " " 1:42. Km. 55099.

~~Shasta 55035.~~

ok. ~~lamb~~ ~~breed~~ in ~~St. George~~
~~fan~~ ~~is~~ ~~in~~ ~~the~~ ~~park~~

Stopped at Lwiro for mail

Arr. Bukavu Royal Residence Hotel.

Saw Bambards boat
and display at store 5:45 p.m.

Km. 55232

May 14 Saturday

Saw Vercaemen-Grangean
Jadin.

bet 10-12

Out to IRSAC at Lwiro
visited labs. Van den Berghe's asst
showed us around.

Buffet lunch at ~~Mess~~ Meeting hall
afterwards went to Chapins

Then lastly to.

Dinner at Van den Berghe's 7^{p.m.} - 12 midnight.

May 15 ^{Sunday} ~~Saturday~~ (1)

Dried sunrise 5 a.m.

to Chapins for supper.

Picnic. Vincks for lunch.

Stayed till near supper time at Chapins

Samples from Tshibati farm stream.

at 900 (not 8 as planned)

(2) After Breakfast to Chapins, expl. flay.

picture. ~~most of day here~~

~~& pygmies & fire making~~

Chapins birds & talk

May 15. Lwiro Lunch at Kinds

16 to Chapins. + to Bat cave.

Tuesday. 17 Mulungu = Dendrix. = Bredo at Night.
18 Buddy Baker Monday Holiday because King's landed

May 19 Marlier dinner.

20 at Uvira Lab.

Wahusi
at church

May 22 bike with Babashas on rear rack

May 23 Lv. Azrida. 9:30 a.m.

Lake Mshasi

23 Gubiro late at night. +

24 day in Park + Haezaert Lunch
+ supper.
Snake bite.

25 got away at 10 a.m. from Gubiro

Arr. Entebbe at 7:00 p.m.
at 8.

26 no air reservations

27 rained on way to Gulu

5 p.m. reached Masindi.

5:45 Aura Ferry.

Arr. Gulu 7:15 p.m.

173 miles from Juba stopped at rest house
over looking Nile Lake Albert Str. in distance

May 16

Monday
~~Sunday~~

Holiday because king had
Landed at Leopoldville

Packed lava.

{ Tree (leaf) galls
Living mites photo'd
Bombarde lecture at night.
after Lambrechts dinner

Soil samples
#73 & 74

Mia-ya-moto bat cave.
hot springs, inside entrance.
near Katana s.w. shore of L. Kivu

In a.m. Baker Buddy & Chapin did over pts of
bird recording while I stored lava

Lunch Suux-pas by Sexton.
Finally we ate at community house.
at 2:45 p.m. started after Chapin for
bat cave visit. (had 2 p.m. date)
met him on road.

College students / colored boy in group
went swimming in lake
2 helped us find cave
had warm spring outside.

hooded drake while waiting
for lunch

May 17

Tuesday

Return to Bukavu

a.m. natives cutting grass with machete. (X)

Lv. Lwiro for Mulungu (Hendricks) 1:20 p.m.

(ate lunch Lwiro before start) 11:50 ate.

km. 29290

soil sample # 7506, 500 feet elevation.
black volcanic soil.

10 km (miles)

Ar. Mulungu in rain about 2:30

km. 29300

in quite a rain

stopped after
a while

saw lab & experimental gardens.

Hendricks took us up to 7000 feet. (goes up to 7500)

Lake level is about 4500 feet.

Lv. Mulungu

3:45 p.m.

Parana pine

Brusses for Sohns.

Ar. Bukavu, Hotel Royal Residence

air reservation sought

4:45 p.m.

cocktail
Bred a party at night; cocktails

Dinner to Thorntons and Chapins
afterwards. -

~~After squabble of yesterday Roy confessed he & Buddy
had pockets full of undeclared films.~~

May 18 Wednesday

Lv. Bukavu 55264 km.

Had talk with Thornton re charges in my room in a.m. Sexton insisted leaving film with him.

Lv. Bukavu (after visit to Oscar) @ 2:55 p.m.

stopped for view shot. 3:30

km. 55264

entered me ^{took valley views} wny stretch rd @ 3:45 p.m. ~~entered~~

km. 55296

"4 hrs drive
Bukavu-Uvira"

"88 miles"

3

Arr. Uvira, in pitch dark @ 7:15 p.m.

looked up Marlier ^{who} took us (after drinks at his home) to dinner at hotel. ^{after dinner went through lab with him & wife.}

On road to Uvira:—

4:00 p.m. bridge of 20-30 feet
(no timber)

4:10 (=4 km. per hr.)

4:15 river shot (took photo) Steel drum
for signalling.

5:00 good road did 95 km.

km. 55325

5:15 p.m. 100 ft iron bridge no timber.
(only occ. eucalyptus)

130 ft bridge, no trees

5:35 40 " " "

5:55 110 " " acc. eucalypt.

6:00 p.m. 20 " " few " nearby

6:05 40 " no trees 50-60 km per hr.

6:20 40

6:25 50

6:35 90 ft iron

100 ft wood (30-40 km. speed)

15 ft bridge some trees for wood

200 ft iron

saw deer
in road

May 19 Thursday

Breakfast, canned cheese
butter, bread & coffee at sta.

Marlier took us through labs in a.m.
to his home for lunch

Lung fish will bite

a.m. or p.m.

@ 7:15 May 19 klm 55422

Tanganyika:

4,000 feet deep

bottom is 1600 feet
below sea level

500 miles long, perfect
crack in earth's surf.

May 20 Friday

(Bot. sample #78)

Roy spent 1/2 hr taken, pictures with all kinds of fish! dredged in 13 meters

Pompe

Phot'd boat in forenoon, dredging motions

Night seine haul 6:30 to 7:00 a.m.

Dinner to Marlier afterward at hotel

Afternoon drove down lake shore

Soil Sample # 76 from cotton field.

May 21

Saturday

wife upset getting house cleaned
~~for King~~
therefore no lunch

Over to see Harroly in Usumbura

Airport and lunch

" at restaurant

Afternoon painted houses - along shore of lake
bought specimens from boys fishing - suffers heart trouble
at hotel again ~~curmudgeon~~ ^{sooty cyprian}

Evening dinner to Marlier's & Holden of Nigeria

Uvira to
Usumbura
= 25 miles

He lived well in the Hotel Falcon in
Astida but we were approaching
the end of our journey and there
was the packing of our gear
and specimens for shipment Rome
A little voice told me that ^{we} ~~we~~
had better move along ~~rather~~
^{by a} day ~~from~~ the scheduled ~~stop~~ in the
Astida area, for

(10)

Some good angel must have been
watching over us ~~for~~ while we were
~~in the Kasapa Park~~ ~~as much as we~~
~~wanted to see more of it and enjoy~~
M. Aezert's generous hospitality. He urge
Came over me to get to ~~Entebbe~~ ^{Uganda} a
day earlier than scheduled. It meant
a day less in the Park, and a day
more in Entebbe where we had to pack
gear and collections for shipment
home ~~by~~ via Nairobi

How providential it was. ~~At~~ When travelling in ~~ordinarily~~ out of the way places, as behoves the experienced traveller, check up any arrangements ^{advance} or reservations that may have been made or promised. ~~So~~ The first thing ~~we did after~~ after signing in at the

Hotel was a visit to the Airways Office to check our flight to Aswan at the head of navigation on the Nile. No word had ever reached the local

office regarding our, in Washington, D.C.
and paid for air-flight tickets. The
plane was full up; we had neither
claim nor right to priority. We were
just strangers in a strange land. It
was either make do in the next two
days, or wait two weeks for the next
Nile steamer down stream. Time and
money were running out — we just had
to be here on the.

May 22 Sunday

Daylight seine haul 500 fcs 8:00 a.m.
one rare fish Marlier wanted.

Coffee and farewells at hotel 9:30 a.m.
smelt like when cooked bought bowl little fish for 2 fcs

got bats taken, night before
(from trees about hotel)

Paid 1000 + 1.40

Lv. Uvira 10:05 a.m. \longleftrightarrow 15m 55678

Rain off and on, but not right at lunch
2:05 to 2:35; blue sky again at 2:40

Lunch.

bet 2:10 and 2:20 \rightarrow 15m. 55798

took distant view over lake. at 5

"6 hrs drive
Uvira - Astrida"

Regular Southern California day

At 3:40 wanted view of cultivated
fields and road; finally got it, showing
terraced hillsides

Usumburu to Astrida
= 103 miles

5,747 feet elev.

Arr. Astrida, in dark, 7:00 p.m. 15m. 55891

Hotel Falcon

went over in dark to medical lab

where Baker introduced us to

Dr. A. Fain (Ludin's representative here)

May 23 Monday

55963
55896
69

Lv. Astrida, heavily overcast day
9:35 a.m. Km. 55896

Did heavy food buying in stores
Peter paid for most

also sample #29 from fill dirt hole side of road

Soil sample #80 11.15 a.m. Soil sample Km. 55963
from opp side of road.

(*) Soil sample #81 near welcome sign to prov. Kibungu
& Kigali. 4:05 p.m. Km. 56098

On road to Nyanza, sort of
Swiss landscape, much as photo'd
in Ecuador, eucalyptus trees here too

At. 5:35 p.m. Km. 56157

On road sign at intersection:

"6 hrs drive

Astrida to Gabiro"

Kigali 108 km.

Gabiro 36 km.

approx. 200 miles

Much of trip alongside Lake Mohasi

→ Arr. Gabiro 6:45 p.m.

Got to Kuezaert before he got in; we had
arrived day before expected

He served us, dirty as we were, ^{with} cocktails.

(*) Soil sample May 23 #81; Km. 56098
near welcome sign Prov. Kibungu. (opp side of road)

May 27
3

p.m.

~~Adura~~
~~Adura~~ Ferry.
Adura

(4)

Victoria Nile
Sor. Grand.

got. to. d. ba. 2:15 p.m.

on Nile

(28 - 50-60 elephants.
= 29 = to Mongalla to get sor.
May 30 4-5 a.m. at Bor

01

at d. ba.
y for
water
needed
5 at
Mongalla
10 miles
away

May 29 Mongalla Terekaka, Pamba.
30 Bor.

31 Shamba 10 a.m.

June 1 Adok 11 p.m. - Fangak Kir)
June 2 Bor to Kado 3:30 p.m.

2 Mahakul 9:30 - 11:30 a.m.

Obail 7 a.m.

Adar

Ponga during night.

3 Salem Banga

June 5 Kosti drawbridge
depart for Khartoum.

83 crocodile nest
84 near rest house

Tues

soil sample
crocodile nest pit
we all looked at it
was an old one

2 bracelets in 'croc's' snout

zebra shot 10:30 a.m.

lunch on
bet. 12:30 and 1:30
after pool croc pole.

Day in Kagera Park

guest house side,

10 p.m. after dinner at

Duezert

Loop began at 3:30 ended 4:20

Muck soil at 3:30 (8458)

soil (429)

did 120 kl. w.k. = 74.40 miles.

6:30 a.m. Km. 56:205 (620 F on therm. at 6 a.m.)

in customs in forenoon

finger hurt like 10.

May 25 wed

Lv. Gubiro

Gubiro to Entebbe

= 250 miles full days

drive with customs stop

did not stop Mbarara

Arr. Entebbe 6:30 to 7:00 p.m.

Kagera to Mbarara approx 210 miles.
Mbarara to Entebbe 100 "

= 390 miles

May 26 Thurs Entebbe, Kampala.

packed till 2:45 p.m.

rained on boxes
left in truck.

May 27 Friday

Lv. Entebbe 10. a.m.

Ar. Gulu 7:15 p.m.

m stn. wagon.
Miles 30, 177/ 5:45 p.m.
May 27
in Book store

May 28 Saturday

Lv. Gulu 8:37 a.m.

Ar. Duba. 2:15 ± p.m.

on road to Duba
Nimule?

cool 85° where
98° at cabin
door.
see Bredin letter.

May 29 Sunday

Lv. Duba hotel. 7:05-7:10 a.m.

Lv. dock after long auto ride. 10:20

shoved off at about 11:20 a.m.

naked
neris.

May 30 Monday on Nile

92° at 4:30 a.m. (X)
Bor. May 30
Papyrus started
at Bor. May 30
2 days papyrus
"Lyke No" old German
factory for paper

May 31 Tues
before noon 5 elephants in grass, after noon 50-60 (3 p.m. dozen
or so) straight down on shore. Boat rubbing buoys at time

Zebra shot May 24 ^{Druck} Km 08386, 10.30 a.m.

On Nile:

(Juba)

were supposed to ^{by str.}lv. Juba at 9:30 a.m.

May 29 ^{Sunday}

Lv. Mongalla 11:20 am

Terakeka

Tombe

Bahrel Jebel

May 30 ^{Mon.} Bor (4-5 a.m.)

May 31. Shambe 1 p.m. - second day of papyrus.

Tues

Adok (mats) 11 p.m. - 1 a.m. May 31 - June 1

June 1 Wed Dura - wood piles

auto trucks, bikes
fantastic forest of mats

"

Buffalo Cape 11.45 a.m.

White Nile

June 1 Wed

(Fangak kir) 11.45 a.m.

June 2 Thurs Tonga in night end of papyrus.

June 2 Thurs Attar 5 a.m. large church.

Thurs

O bail 7 a.m. June 2 girls left. str.

Malakal 9:30 - 11:30 - Cloudy 2/3 of day (78° at nite)
Rain before going ashore
almost missed str.
picked up 2 extra barges.

June 2 Thurs [?] ~~Kodok~~ Kiska (corn bread for lunch)
Kaka = 3:30 p.m. - 6:30 p.m. (150 counted ashore)

Nuer {nodules in head}
Shilluks. {long less.}

Melot dura

June 3 Fri 6 a.m. Kaka schools for sale.

5:45 to 6:15 p.m.

June 4 Sat (Salem Banga, Sudan)

June 4 arr. Debelem 10:30

Various sales rope!
melons raised & traded here
got away at 11:30. with second str.
along side to help us steer through difficult
channel

June 17 —

June 1 ^{Wed}

end of papyrus. except for scattered patches
on tiny ~~islands~~
#89 (about 88 + 99 here)
Soil samples from wood piles at Buffalo Cape

June 2 ^{Thurs}

Obail 7 a.m. girls left; passed Atbara 5 a.m.
open country. → At Kisra at lunch.

Soil sample #91
Kakra
3:30 p.m.

Lvl at 4 p.m. Kodok 7:30 p.m.
Malakal. 9:30 - 11:30 ^{a.m.} almost missed boat

June 3 ^{Fri.}

Melut early a.m. passed Dura in nite.

June 3; 5:45 to
Soil #92 6:15
Salem Banga

Kaka ~~schools~~

Toraki t #100 - 1:15. Camel
wash.

1st horse since Bangala + Lwiro.

June 4 ^{Sat.}

arr. Jebel em 10:30 rope. second str. helped us out

June 4. ^{Sat.}

10:30 a.m.
Jebel em
soil #93.
watermelons

Arr. off Kost bridge at 10 p.m. + wait till
draw is opened in a.m.

June 5 ^{Sunday}

Ok.

Arr. Kost.

7:00 a.m.
8:30 a.m.

had last breakfast aboard

Lv. Kost.

5 p.m. got on sleeper.

at Jebel Moya. 5 p.m.
mile some 294
castellated cliffs

6:15 Arr. Old Sennar at 5:30 p.m. temp = 102°

June 6. ^{Mon.}

108°F

Arr. Khartoum. by rail.

Lunch + dinner on train.
on 5th

6:15 a.m. ???

Grand Hotel

June 7. ^{Tue.}

In Khartoum.
and Omdurman

(2 a.m. 9th 90°)

4-5 p.m. 105° inside

at 2 p.m. compartment. 104°

little girl sold coffee. outside
4 p.m. = 115°
102° at 9 p.m.

June 8

Wed
Lv. Hotel. 7 a.m.?

El

Damer @ 3:15

11:15 train

Lv. 11 a.m. by train for Wadi Halfa (Zurur)

were due at 2:15 p.m.

June 9 ^{Thursday}

at 2 a.m. temp. in compartment 90°
at noon or 12:30 p.m.

Arr. Wadi Halfa 11:30 a.m.
Lv. 4:30 p.m. lunch at 4:00

Arr. Zurur

got up at 5:15 a.m. 86° at 9:10 a.m. 95° inside. 7 p.m. Egypt of song + some.

May

June 10 ^{Fri} on Nile ^{5:50 a.m. passed submerged building + temple cut in rock} Abu Simbil temple.

June 11 ^{Sat} Str. Al Zahra Bot conductor. Temp in compartment @ 5:30 = 116° at Daraw at 5:45 = 115°
Arr. Shellal 8 a.m. guide 60 + 25.
Azwan. 9-12:30
Hotel till 4:45 p.m. (lunched at Hotel)
Lv. Asswan at 5 p.m. (schedule 4:58 p.m.)

Arr. Luxor 9 p.m. (8:45 p.m.) dinner in train.
Hotel Luxor. Note of the Shehata Adam. Dept. Antiquities Luxor.

June 12 ^{Sun} to antiquities office at 9:30
10-12:10 — 107° @ 3 p.m. Karnak Hypostyle Hall with 136 columns

Luxor temple after 5 p.m. Set I
June 13 ^{Mon} cross Nile with felucca to Thebes { Ramesses VI? Tut-Ankh-Amun Amenophis II.
In Valley of Kings! Police man funeral
Copper river at sunset. Colossus of Memnon. Deir el-Bahri Queen Hatshepsut
Lv. 8:30 p.m. sleeper for Cairo. Breakfast in train

June 14 ^{Tues} Last night 98° this a.m. 90° at 5 a.m. 88° at 6:50 a.m.
Arr. late for lunch in Cairo Train much delayed.
3 hrs late arr. in Cairo

June 15 ^{Wed} to Pyramids and around town
Coptic Church in aft. Bazaars = Lower East side 6000 year old bread
to Mosques in 14th

June 16 ^{Thurs} 90° in day 83 at night at 10:30
84° at 6 a.m. June 15
Lv. Cairo 11:55 p.m. Hrystrael to customs with me.

June 17 ^{Friday}
Arr. Rome 5 a.m.
Lv. Rome 2:45 p.m.

June 27 ~~arr. New York 27th~~ ^{arr. New York 27th}

①

Dear Bruce Tibi, and Megs
and Johnathan, ~~greetings~~.

① ~~Dear Bruce~~, I have been wanting
to write you ^{Bruce} for some time
long time it is, but each day
seemed more crowded than
the one before — promoting
so many things I guess, besides
this ~~Printhead~~ Arab monograph
which I am trying to push ~~the~~
along. Takes most of my day
like hours.

→ Dad, Clarke said
you'd inquired. Yes, I'm very

② much alive, and have nothing
physically to complain about.
③ What ~~to say~~ about mentally not
much, ~~but~~ ^{to say} like all old men ~~get~~
gives over

⑧ could have reached the point
~~in time~~ don't like the way the
"world ^{it seems to be} is going.

No matter ^{appear to}
what virtues L.B.L. may have
as a President, the Demo-
crats have been in power
for too long. ^{This country is fast be-}
~~we are getting~~
~~to be~~ ^{emitting} the party State. All
the political appointees and
there is an uncounted host
of them feeding out the public
trough have been at it so
long ^{that} they think along with the
Administration that they own
the country, and they practically do.
The public debt is higher than
and end is not yet in sight.
think of the interest charges be-
fore a single cent of tax money
can be usefully spent, and

Nyamulagira

417

422
574

Nyiragongo

417
424

X

8 volc. chains

Chain of volcanic mts northeast of
Lake Kivu, = Virunga. Separates
Nile + Congo Basins by cutting
across the whole (entire width)
of the Great Rift valley of
Africa. 8 volcanoes west to east

Nyamulagira, 10,020 ft.

Nyiragongo, 11,578 ft.
(Nyiragongo)

hundreds of secondary craters.

Eruptions in 1904-1905

this small satellite volcano

1912 a new crater opened up in plain

bet. Nyamulagira & Lake Kivu. Rumoka

The flow ^{(virtually) closed off} a great north

Sake Bay - Bobandana Bay. From Lake

Jan 28. a vent called Shambene.

split S.W. slope of Nyama. at

7,380. ft. Reached Lake Kivu

12 Dec. at 1938 ^{covered} Sake Bay

Rd for 6 miles

every road in way.

+ rendered Sake Bay to navigation

March 48 Nyiragongo awakes I

3 lava streams

2 cut at Lake Boma Rd.
11 miles west of Boma.

at night
plumes of smoke glow from white hot lava. ^{16 by} volcanoes

(47 miles = Butshuru to Boma)

Rd is of blocks of lava covered
with ashes

6 extinct volcanoes to east deeply eroded

Warden at Rumungabo

15 1/2 miles from Butshuru.

Kibati Pass bet. Ishangi-Lugongo & Mikenso

Kibati From here magnificent view of all
Lake Kivu. 1968 seen below

Nyamulagira

N. gongo

1948 cut road

SW 10 1/2 miles

west of Boma

4 1/2 east of Lake

Second great eruptⁿ
at modern times

was in 1938 Shaulbene
reached Lake in Dec.

Lake Kivu highest in central Z
Africa at 4,789 ft.

1938-39 burning heavily devastated
entire plain South of Nyan
cut Sukst-Boma Rd.

On Boma Kisenye Rd. a left.
1's Green Lake has subterranean
connect with Kivu.

After Green Lake cross recent
1938-39 flow.

Road going south follows Bay of
Sukst.

From Bukavu main highway to South.
ends in Uvira + Usumbura.

Road ^{15 1/2 miles} climbs to 5,904 feet. to descend
to 3,280 narrow track cut out of
solid rock, clings to spurs of mountains
2 section one drat. with Gorge of
Ruzizi

86

Foto Lake T road rises to 6,560 ft.
to 7,872 feet in IV. & then
descends to the Kagera at
4592 to 4920 ft. to Victoria
furthest source of Nile.

Bahutu. - vast majority.

Batwa - pygmies

Kagera Park has more
varied & abundant species than
Rwundi section of Albert Park

103 miles from Usumbura to
Astrida

28 miles from Kigali & 5 miles
come to Lake Mohasi.

Permit to Kagera has to come
from Brussels.

Kisenyi 25° at noon
12° in morning & never
humid.

in the jungle-like woods, some miles
off the road, over ^a very rough
~~and tortuous~~ trail, the last
stretch of which had to be made
a-foot. It was a sight to be-
hold stretching for miles right
and left, and back to the lower
reaches of the mountain. This
flow did not spill over from the
crater, but burst from a fissure
rather low down on the ~~mountain~~
side of ~~the~~ ^{10,000} foot high
volcano.

40 km
= 24.85 mi.
20 km
= 12.43 mi
1/2 way to
Kivu

The one hundred and forty miles from
Rwinda to Kisenyi passed through
the heart of the lava country.

intermittantly
~~seems~~

(51)

N. is ~~then as a is~~ ~~forever~~
active, ~~even~~ when seemingly
quiescent, molten lava is usually
boiling in its crater lake. Re-
corded ~~eruptions~~ lava flows go
back to 1894, but ages before
the Central Africa chain of
volcanoes, ~~of which it is the~~ ~~most~~ ^{western} ^{end}
thus formed across
the great rift valley Lake Kivu
twent of which it is the
~~west end is one~~

~~unless~~ Lake Kivu by way of Lake
Edward ~~must be a part of~~ the Nile
watershed. Since ~~that~~ ^{the lake} time it drains
~~to~~ south through the Ruizi
River to Lake Tanganyika
to feed with it the waters of
the Congo.

~~Recorded~~ ~~have~~ lava flows have been
~~and taken place~~ every few
years since, often in successive
years, and

~~N. is seemingly forever active,~~
~~recorded lava flows are~~

~~The~~ Recorded lava flows
which occur every few years
date back to 1894, and even
when seemingly quiescent ~~in the~~
lava is ~~generally~~ ^{can generally be observed} boiling within
its ~~crater lake, deep down in it~~
~~the lake~~ ^{But in intervals} After periods ~~After~~
~~of a few years with~~ ^{of a few years with} apparent dormancy
and of no more than "normal"
explosions with in its mile and a
quarter wide ~~crater~~ ^{some of the} greatest
greatest ~~eruptions~~ ^{of its} lava flows have
~~seem to have taken place~~
occurred, in 1912 after about
5 years ~~of no~~ ^{of} no noticeable
activity, a great flow destroyed

~~Having burst from a fissure low
down on the side of 10,000 foot
high Nyamagira~~

Lake Kivu ~~some~~ 24 miles to the
 South. ~~At this~~ Before he flow
 or flows ~~ceased it~~ ^{is} mid year
 1940 it is estimated that
400 million cubic meters of lava
 were poured out, not from the
 main crater but from ~~the~~
 adventitious or ~~newly~~ ^{freshly} formed
~~crater~~ cones some distance
~~from the main~~ nearby

5 large fissures in the
 slope of the mountain and
 sundry ~~small cones or~~
~~satellite volcanoes or cones~~
~~formed nearby~~ poured out

400,000,000

400 / 523.17711000,000

over 500 million. 523,177,110



much arable land and reached
~~lake Kiv and cut off a bay at~~
~~the north end of Lake Kivu from~~
~~and cut off a bay~~
cut off a Bay at the N. end of Lake
Kivu from the Lake proper. And

Nothing of great consequence
and nothing more than normal, ^{within a few days}
happened from that time ^(mitten lake) Jan.

1938 when Nymal gira let loose

again and has more or less
~~at at on several occasions~~
~~violently active from January~~
~~1938 to to mid year of 1940~~

~~At this~~ During this period the
lava flow went all the way

~~to lake covering a vast area~~
~~and went all the way to lake~~
~~Kivu and lava~~ The great lava


flow ^{then} took place, continuing
for weeks and indeed months
and covered several hundred square
miles of land, reached all the way to

This lava flow was as impressive as any I had ever seen and reminiscent of the great Galapagos flows ~~and~~ of James and Harborough, only here in the midst of forested areas. Also those for the most part were quite old. This one very recent.

Pop. ~~near~~ ^{over} 11, million (Bet 11 & 12 million)

Geologically central plain of Congo
= ~~bad~~ giant lake.

Mineral wealth.



Great Rift Valley or Graben
869 miles long 25 miles wide
from Zambesi to the Nile.

Lakes Tanganyika, Kivu, Edward
(plains of Ruzizi, Ruindi, ^{and Albert} Rotschur,
adjacent mountain ^{and Semliki.}
chains. 6500-9800 feet.

Nyamlagira 10,025.

Kivu formerly Northern
got dammed by
volcanos.

now flows south into
Tanganyika.

Long chain of depressions

Western rift valley
Lake Albert to southern
end Lake T.
850 miles

Ruwenzori 16,000 feet
above sea level.
stands within the rift
valley where its sides
spread far apart
South of Ruwenzori. Lake
Edmund.

Jan 28, '38 Nyamulagira
eruph. 3000m
high

1 billion cubic meters
from Jan 38 to June 39

Nyamula Nisagang
glacial melt

did Corin ever write
up volcanoes?

1929

klm

1932 at 2864

Annual ^{average} ~~moyen~~ de lave during this

period 1932-38 amounted to

about 30 million cubic meters

Broke out of 5 large fissures Jan. 28 / 38
formed also satellite volcanoes

Dean Verhoogen
1938

Nat. Geog.
Oct. 1939
Vol. 76 - No. 4
pp.

Jan 28 Ruzejima a
rides Hundreds of square miles
Nyamlegira

⊗ Rutshuru. hdqrs
1/2 way Bert. Sh. + L. Kivu.
⊗ 22 miles N.E. of
Nyamlegira

From road to top of volcano 2 days hike
10,026 ft. ^{above sea level} elevation is westernmost of

The Virunga range of volcanoes, North
of Lake Kivu (518-519) one of the largest
geol. features of Africa.

group of 8 great volcanoes in
Western Rift Valley. 850 miles long
bottom is

contain Tanganyika 1600 feet
below sea level. And Kivu Edward
+ Albert.

Rutshuru 22 miles N.E. of volcano.

Western Rift Valley 850 miles long

At a time Tanganyika flowed N. Bismarck from dik
+ Lake Kivu, now both feed Congo.

1901

Dates from
~~R. Cambier~~

1904 names

A. Meyer - Le Volcan

1905-

Nyamuragira et son
éruption de 1951-1952

1912

Inst. R. Col. Belser

1920 (sub-lactamine)

Bull. 24 (1-2)

1920 (l. lacustrina)

1953
pp. 233-287

1938

400 million cubic meters

random letters

1948

erupt & plain but same
Nyrangans

1951 is Nov. 5th 1952
~~Oct. 1950~~ Jan 15th 1952

40,000 features 15 less Russ
Century

at night we climb hills
above Kiseni, to see the
flow of molten lava in the
crater of Kina gweya

Niragangr

easterns of and remaining
active volcanoes at a chain of
② across the floor of the Great Basin
with ^{formation} ~~valleys~~ reversed the drainage
from the lakes and rivers ^{from the hills} ~~into the~~ ^{to the} ~~basins~~ ^{cross}

Before our advent ~~Nyamragira~~ Nyamragira
➤ (Niamlagira) 3058m sous-lacustre
Had erupted 1901, 1905, 1912, 1920

1920 Activité permanente des grands
volcans Nyiragongo et ^(Niamlagira) Nyamragira

1938 Niamlagira
from a new crater on S.W. slope
spewed of 400,000,000 cubic meter
of lava. reused in 1940 in Nyamragira
Activité permanente in ~~Nyiragongo~~ Nyiragongo

1948 were eruptions and
vents to south of these active
volcanoes

1951 Niamlagira
Nov. 12/51 to mid Jan. 1952

1954 Niamlagira
eruption new cratère Mihaga
Le activité a débuté le février 1954

Nyiragongo truncated cone 3740m.

Green Lake 20 km from Kisumu.
From Warden Head quarter 16 km. (2 km from
road lava flow)
we say 1953(?) flow.
[1954?]

From Carr. Active Volcanos of Africa
 J.J. Richards in 1957
 Nyamuragira
 Shield volcano
 Central crater
 International Volcanological Association Naples 1957
 parasitic crater

June 1894 ↑ => normal eruption
 96 ↑ => lava flows
 Feb 99 ↑ oo => submarine erupt.
 1901 ↑ oo => eruptions in lava lake.
 2 oo => oo = erupt from radial fissure
 4 0 ↑ =>
 5 oo ↑ =>
 06-7 ↑

Rumoko
 some
 few miles
 N. of Kivu
 cut off
 Bay from
 Lake
 7 ↑ 5 yr. in larval
 12 oo ↑ => destruction of arable land
 20 ↑
 21 0
 21-38 → oo 0 oo = ↑ => 1938 Jan 28 end June 1940
 38-40 → 27 flow went all the way to Lake Kivu
 48 oo oo = ↑ =>
 51 oo oo = ↑ => Nov. 17 - mid Jan 1952
 54 oo oo = ↑ => Feb. 21 - May 27
 56 oo = ↑ => Nov. 17

"Shambene" Jan 28, 1938, flowed for weeks & months
 Covered several hundred sq. miles reached
 N.W. corner of L. Kivu
 Native brought food etc from 20 miles

Nyamuragira (Synonyms =) Franz Jos. Richard
~~Nyamtagira (Namtagira)~~

40 km north of Lake Kivu

Lat $1^{\circ}25'S$. Long $29^{\circ}12'E$

Above sea level 10026 ft. (3053 m.) ^{Perhonen 1948}

" Lake Kivu 1593-6 m. 3056 m.

Most active N. of L. Kivu.

Before volcano chain erected by Kivu
by way of ~~L. Albert~~ went to Nile
Edward

is most active volcano N. of Kivu

Before volcanoes Kivu flowed into Nile
via Lac. Edward

Instead of to south, through Ruzizi
R. + Tanganyika to Congo

Crater is 2 km in dia. 200-300 ft deep

Remarkable feature is number
of satellite (satellite) eruptions
& adventive cones on flanks &
surrounding area. ~~1938 + 1948~~

In some cases 1938 & 1948 considerable
emissions of lavas took place from
fissures, without practically a cone or
deposits being formed

See Nyamuragira } From
Nyiragongo } J.J. Richard

20 km N. of Goma, Lake Kivu

Lat. $1^{\circ} 29' S.$

Long $29-14'$ East

Above sea level. 3470 (11,380 ft)

At above Kivu 2010m (6,594.6 ft)

Activity

1884

↑ 0

○ in central crater

Goetzen 1895

→ 94

0

↑ normal explosive

G.A. p. 210

98

0

99

0

~~erupts~~ eruptions in lava lake

Durch Africa von Ost nach West Berlin 1895

1900

0

1901

↑ 0

02

0

06

0

1911

0

Ans. Oct. 1911

1920 - 21 / 0 ↑

27

0

28

0

dense smoke

After having been quiet 1930-35,

Nyiragongo has been more or less constantly active. In daytime this activity was revealed by plume of smoke + steam, or higher by a red glow ~~erupts~~ (eruptions in lava lake)

Western or Albertine Rift Valley

p. 31

Active or dormant volcanoes of African Continent, and of African Lake region ~~are~~ in particular are associated within or close to Eastern, or Gregory's Rift Valley of East Africa, and the Western, or Albertine ~~Rift~~ Valley of the Belgian Congo.

Valleys are ~~but~~ a part of the gigantic zone of crustal warping, faulting, and rifting, which forms the series of fault troughs of the Great Rift Valley.

The G.R. Valley stretches for over 7000 km. ^{roughly} in N-S. direction bet 37°N and 20°S . Runs from Taurus mountains in North down to Beira, South of the Zambezi, thus involving $\frac{1}{6}$ of the earth's circumference.

Lac Vert

May 13. 1912 } Lava country ^{on the} one hundred
 1938 } and 40 miles ~~road~~ ^{road} from
 1948 } ~~collected~~ ^{collected} ~~from~~ ^{from} Kisenyi
 at Head of Lake Kivu } road to Bukavu
 from Kisenyi (+ Boma)

On the way back from
 Kisenyi around the head
 of Lake Kivu we passed
 through the heart of the lava
 country

These lava flows
 were perhaps the most im-
 pressive that I

We had not ~~gotten very far along~~ before Oscar ~~called our attention to~~ ^{pointed out} several hot springs in a sulphurous area close to the road, one of them was a miniature geyser, of rather continuous flow, squirting a column of ~~hot~~ steaming hot water ^{a foot or more} ~~something like~~ ~~two feet~~ into the air.

Hot springs are not unusual in central Africa where there are ~~a number~~ ^{several active} volcanoes, and much evidence of vulcanism. ~~A few~~ ^{rather pure} of these springs are sources of salt of which there is a great dearth in Africa and which ~~is~~ ^{herefore} an important article of trade. One such spring is at Kibero on the eastern shore of Lake Albert, another at the north end of Lake Edward. ~~A crater lake at~~

~~Our next port-of-call was~~ ^{to be} ~~Kisenyi on May 12, but enroute we~~ ~~wanted to~~

Dr. Foshaag our head curator of geology had asked us to get him samples of Congo laxas, and those of Central Africa had a chemical composition differing from those elsewhere in the world. He had especially mentioned the 1953 eruption of Mt Nyamuragira which we would pass on ~~the~~ way to Kisenyi our next port-of-call. ~~The~~ The special permits to collect there was required

was well worth the time taken out of the mornings journey. ~~For~~ Call upon Major Gilliaert, the chief game warden with headquarters at Rumangabo, not quite three hours out of Rwindio. Without the special guide he assigned us we would never have located the flow, for it was well back

Previous page ended up on elephant herd in dark (46) had (47)
Lions are in number in this Park area, but we have yet to en-
counter any. Mr. Baert took us to their feeding ground, ^{to which} ~~not where~~
~~they are fed but where~~ they drag their prey, mostly hippos, ^{young and not fully grown} ~~it seems~~
~~at this spot~~ ^{So} There were heaps of bones on semicircular flat at a
wide bend in the river. ^{below the bluff which overlooked it.} On occasion they may be seen here ~~from the~~
~~bluff above especially~~ toward evening, ^{however,} but ~~Such~~ was not our good fortune.

Here ^{abouts} ~~too~~ you ~~will~~ find hippos way up on land. They've taken to
foraging ashore. ~~There~~ There are so many of them in the water, that there
is not food enough in way of aquatic vegetation to go around. ~~So~~

The one full day at Rwindi was all
too short. Regretfully and somewhat
hurriedly we left the next morning not
from choice but ~~from~~ ^{of} necessity.
Warning had been sent around that
the bridge on our way out was due
to ~~undergo~~ ^{undergo} such extensive repairs
that the road over it would be closed
for ~~at least three~~ ^{two} days, if not more.
The choice was not ours, but we made
it with a quarter of an hour to spare
at 7:45 in the morning.

over

61

~~no para~~ ~~We got some food by the way~~ ~~They will find~~
~~hippos~~ ^{too} ~~way up on land.~~ They've
taken to foraging ashore ^{as} there are so many ^{of them} in the water, there ^{that is} not food
enough in way of ^{aquatic vegetation} ~~water plants~~ to go around. ^{So} they ^{graze} ~~make use of~~ the
tall grass ashore. Still I want to see them eating it. We were told

~~on good authority that they do.~~ Everybody wanted another day ~~was~~ in Rwindi
~~Rwindi, I see,~~ but we had a Watusi dance ~~date~~ coming up in Kisenyi
on the 12th ^{of} May and ^{very much} wanted to get some lava samples enroute from the
1953 eruption of Mt. Nyamuragira. The Congo lavas are different in

chemical composition from those elsewhere in the world and the Museum
geologist was ^{to for us get for him} ~~anxious for~~ specimens of ~~them~~. Here again

one had to have special permission to
collect, in addition to our very strong
letter of introduction ~~but~~ ^{it proved} well
worth the time ~~it took~~ ^{to go for it.}

~~special guide was furnished us without~~
~~whom~~ we would never have ^{located} ~~found~~ the
lava flow for which we were looking ~~for~~
It was well in the woods several miles
of the main road over a rough and
rocky trail.

~~necessary~~
^{necessary} ~~to stop~~ at Rumangabo
to see Major Gilliaert the chief game
warden about the matter, for he furnished
us a special guide without whom

47 → Lions are in number ^{in this Park area, (61) 47} ~~here~~ but we have yet to encounter any. ~~is the~~ Mr. Baert took us to their feeding ground, not where they are fed but where they drag their prey, mostly hippos, it seems, at this spot for there were heaps of bones on semicircular flat ~~area~~ ^{awide} at ~~the~~ bend ⁱⁿ the river. ~~At night you can hear if not see them.~~ On occasion they may be seen here from the bluff above, especially toward evening, but such was not our good fortune.

Turn back

4 An hours run from Bukavu at Lwiro is located the leading Belgian Congo ~~one of the main~~ headquarters of IRSAC station, ~~as it is known~~

the "Institut pour la recherche scientifique en Afrique centrale." ~~A fairly recent development -~~ New buildings were going up on all sides, handsome, am-
modious ^{well appointed} buildings connected by breezeways a protection against the tropical sun as well as torrential rains. All fields of natural science full with in the purview of the station's research ^{comprehensive} program from anthropology to ~~set~~ microbiology excepting agricultural research for which there are INEAC ~~stations~~ stations, strategically placed through out the country. ~~It was at Yangambi that we~~ ^{these} of which Yangambi was the headquarters station.

Here at Lwiro we were assigned two small but very comfortable guest houses. These and the station proper are on the shores of Lake

An hours run from Bukavu is Lwiro
where is located the leading ^{Belgian} Congolese
search station

②

Kivu, a very considerable, very beautiful body of water about 75 miles in length. The highest ^{large} ~~lake~~ lake in all Africa it lies at an elevation of something over 1700 feet.

As luck would have it, as we drove up, the first man we encountered was Frank Lambrecht, a Belgian whom I met at Rutgers University three years before when he was acquainting himself with serological techniques and practice ~~in~~ under Dr. Alan Boyden. Here in the Congo he is ~~applying~~ looking into the incidence, spread, and possible control of sleeping sickness transmitted from animal to animal, and to man by the tsetse fly. ~~A~~ Serological examinations of the blood ingested by the flies makes it possible to determine the various species of animals upon which the flies have fed be-

(344)

fore capture. It is amazing the ~~serological~~ ^{so} information that can be derived from a drop of blood from a fly's stomach squeezed out on a piece of filter paper.

Dr. Lambrecht took us on a tour of the station and its laboratories, introduced us to the director Dr. van den Berghe, and ~~various~~ ^{many} members of scientific staff. We learned that the geological studies also carried on here include earthquakes and volcanoes (seismology and vulcanology). Biochemistry, nutrition, and animal parasitology have each their own specialist.

~~Living on the reservation, we~~ ^{Resident at the station,}

~~the late~~ Sound Dr. James P. Chapin and Mrs. Chapin. He ~~was~~ ^{is} an old Congo hand having first taken part in the exploration in 1902, when he was a youth of 12. ~~He~~ ^{He} probably was ~~and a member~~

and a member of the American
Museum's Lang-Chapin Expedition
of 19

(4)

better acquainted with his ~~section~~ ^{part of}
the world better than any other man
having over it far and wide. A
dedicated ornithologist, he was
never without field glasses and
seldom without his gun, as he
wished definitely to document his
observation with specimens of the
birds concerned. But this not
mean that all birds under observa-
tion were made into study skins
only where he needed to be definitely
sure of the species involved.

Continuation of May 14/55 letter

~~By no means all the birds studied~~ ^{were killed, some having been definitely were}
~~kill all the birds studied for that would end that particular study.~~
^{on} ~~which proved to be their last visit~~ ^{have been living}

The Chapins, ^{on} ~~this time~~ ^{have been} here since '53. ^{He serves as a}
^{Dr. Chapin} ~~being the~~ consultant to Dr. van den Berghe, and according to the latter is the

man ~~who is~~ responsible for the selection of the Lwiro site

~~headquarters and main research center for the IZSAC.~~ ^{within} One here is in reach are

~~more~~ ^{some} different types of country, from jungle to near desert, high

mountains, ^{Do} ~~and~~ low lying plains than ^{perhaps} any other ^{area within} place in the Congo. ^{By}

crossing the mountains to the West in a few hours you ~~are~~ ^{find yourself} in virgin

^{-land-} ~~jungle rain forests.~~ ^{What a place for field studies!} All one needs is the time to explore. ^{In response}

~~asked Chapin for a likely place off from things in general where one~~

~~could spend several weeks in a relatively untouched land and forest~~

~~among, or near natives not too much influenced by the white man, and he~~

^{out} ~~pointed to a mountain to the north, and said there~~ ^{the said "is"} ~~there is a rest~~

house in a forest reserve, ^{of} ~~which you could have use~~ ^{may} ~~on~~ application

and with a couple of native boys live there quite comfortably as long

as you liked. There you would see ^{was still a sizeable bit of} ~~this part of~~ Africa in

the original ~~Ruegege is the place, located at an elevation~~

of 8,000 feet, and not too difficult of access, but restricted as to

visitors. ^{Can} ~~From it as a base one could work out in all directions,~~ ^{Its}

a primitive and unspoiled place ~~says Chapin,~~ which it is a treat to

visit. He recommended the drier months, July, August, and/or December,

Jan. Feb. ~~Sorry we did not have the time to go there for just a look~~

~~around; it was a temptation, lying just over there, before your eyes~~

~~At Chapin's we got the opportunity to photograph some pygmies who live~~ ^{In his}

over the hill from his place ^{ed, (a small band)} ~~so we~~ ^{just} ~~they made fire for us, just by~~

6

Twirling between the palms of the hands
a stick of hard wood in a softer piece
underneath.

Here in the mid-heart of Africa you
would scarcely expect to be able to attend
a lecture by Alain Bombard, the French-
man who crossed the Atlantic in a rubber
life raft with ~~just about~~ ^{on May 15} more than
a seven by three foot space for the
passenger within it inflated cylindrical
sides, but here he was with his wife
travelling and lecturing through Africa.

6a

Follow with ~~the~~

Continuation of May 14/55 letter

here in the heart
of Africa
mid-Congo

6a

twirling a stick of hard wood in a softer piece underneath. It takes a bit
of skill, ~~and patience and dry tinder~~, but they produce a fire in no time. The farther one

gets away from the cities the more real Africa you see, while we were

here in Lwiro, from afternoon of the 14th through morning of the 16th

we had the opportunity of attending a lecture given by Alain Bombard,

the Frenchman who crossed the Atlantic in a rubber life raft with

scarcely seven x three feet of space in it. Lived on planktonic

animals and fish he caught with nets, and hook and line. Quite

naturally, very little in the way of motion pictures but he did keep

his audience, the station staff, and families, spell bound for a couple

of hours. I did not get much out of his discourse, but I had had a

few words with him at lunch time earlier in the day. He spoke excellent

English, and when I inquired for more real data on his exploit he

was been recorded by his said it had been typed out by the French government and that a copy

could be obtained from the French Embassy in Washington, gave me a card

to the Naval attache there, to whom he wished to be

remembered. He expects to attend a Navy conference in Washington in that

Fall on survival at sea, and on a brief lecture tour at the time.

On our return to Bukavu we stopped at Mulungu to see the area

INEAC station, to look for mites on economic plants being our objective this time.

The place proved so interesting under the guidance of the director,

Dr. F. L. Hendrickx, that a second day there.

Chapin came down from Lwiro for Bredo's cocktail party on the 17th

from 6 p.m. till we went home to dinner near nine in the absence of the

governor we met the acting governor. Everybody of consequence politically

is down Leopoldville way to see the King of all the Belgians who landed

there on the 16th. His advent brought on a colony wide holiday, even up here.

understand that he's going pretty much all over the Congo and will be

up here in the near future.

(7)

The next day May 18 Dr. Baker returned to Mbulungu, while Dr. Sexton and I proceeded with car and truck to Uvira at the north end of Lake Tanganyika to keep an appointment with Dr. Georges Marlier, ichthyologist and director of the Hydrobiological Station maintained here by IRSAC.

~~Because of difficulties in construction~~ Because of difficulties in constructing the ^{steep and tortuous} ~~road~~ over and through the mountains from Bukavu to Uvira it is mostly a one way affair. To expedite the passage of cars and trucks each way, there are "gates" at intervals, a bamboo pole across to up-right, manned by a native living in a thatched hut close by. Before the door, and hard by ^{each} gate was a steel drum on which the watchman beat out ^{the requisite} a signal ~~telling~~ informing the next man up or down

(African drum style)

the mountain whether a car or truck,
one or more had entered or left
his ~~traffic~~^{road} block bound up or down
hill thus the road was kept clear
and one way successfully in each
section and traffic efficiently ex-
pedited. It could not have worked
any better or more smoothly with a
telephonic communication system.

We got to Uvira rather late, 8 p.m.
and after dinner at the ~~local~~^{small} hotel with
Dr. Marlier retired to rooms provided
for visitors ~~to the station~~. on the second
floor of the laboratory building.
This was a very attractive establishment
Originally designed as a resort hotel
but never finished it was taken over
by the Government ~~as~~ for the Hydro-
biological Station.

This place Uvira is another highlight in trip several weeks on this Lake Tanganyika is rewarding and worth anyone's while. I can most highly recommend this station and accommodations, and ~~it's~~ its young (38) director to anyone. WLS

My abrupt ending of the other day (about ~~May 16~~ May __) left us-- you high and dry at the Uvira hydrobiological station at the head of Lake Tanganyika, in a comfortable spacious "old" hotel building. Did I mention that Marlier, the director, reminds me for all the world of Bob Lunz who was on the Joseph Conrad with us. Same build, thin, wiry, active, dark complected, black hair, and half French; both are in charge of biological stations and wives are both blondes. Marlier is just as interesting as Bob and loves his work just as much.

~~In~~ the morning of the 19th we went through the lab^{oratory} examined collections, and talked over ^{mutual} problems ~~connected with the work, and people working along those lines elsewhere.~~ That afternoon we worked down the Lake shore west, and south, but got very little ^{some very interesting} a few crabs.

~~For a long time we had to wait for the rare shrimp here George (Georges Marlier) promises for another day.~~ The next morning the ~~20th~~ the 40 ft lab^{oratory} vessel was taken out on the lake and put through ~~some of its paces~~ ^{several} making a couple of dredge

hauls. ~~one was mostly sand with few dead shells, the other little else than a few aquatic plants.~~ The boat is here one needs just a week more to make the best use of it,--a drum of gas would get a lot of "steaming and hauling done; I'd also like to come back with some

which proved to be put through its paces for us

Continuation of May 14/55 letter

41 suitable traps for deep water work - not too deep, for they ~~say~~ near the bottom there is a dearth of oxygen. There's an awful lot yet to be learned about this lake in spite of previous English and Belgian expeditions. ~~The Belgians were the first to demonstrate the abundance of fish now found in it.~~ A delicious small smelt-like fish and very good eating, occurs ^{here} in great quantity. ~~Each night is fished (dipped up) using light lures.~~ On dark nights a torch light attracts them, though with moonlight and daylight they shun the surface. In the height of the fishing season as many as a thousand dug out canoes will be out at night with their torches, ~~although~~ ^{however} in these days Coleman (gasoline mantle) lights are used ~~instead~~. Their brighter beam draws the fish better, with the result that fishermen using ^{such brighter} lights have increased their catch 6 fold. ^{these little fish} ~~fried~~ ^{are most} ~~tasty and grand to serve with cocktails.~~ ^{exceedingly} The catch is practically all consumed ^{locally and fresh.} ~~Would that I could have had some canned for you.~~ ^{about} They are cheap enough ^{American} 5-6 cents a quart.

Every other week Marlier has a 600 ft. seine hauled on the ~~beach~~ beach at night for purpose of sampling the local fish population; he records ~~kind~~ kind, number, weight, and the stomach contents of representative specimens, in order to check on kind of food sought. Between weeks, day light hauls are made but so that I could see and photo a day time haul we staged one the very next morning also, the 21st, and sure enough we got more fish, additional kinds as compared with the night haul. A couple of ^{the} fish ^{Marlier} ~~he~~ said were rather rare. All but one of the latter ^{which} ~~that~~ Marlier wanted for the station collection, were "pickled" for the National Museum. After ^{our} ~~the~~ seine haul we ran over to Usumbura at the N. E. corner of the lake. Here resides the governor of the Belgian mandate-Ruandu-Urundi. ^{was} The newly appointed governor ~~is~~ Jean

~~Continuation of May 14/55 letter~~

Paul Harroy whom I've known by correspondence since 1939. He apologized for not asking us to lunch, but his wife was in a "state" getting the house ready for the King of the Belgians who was coming through just 10 days later. To tell the truth, the whole Belgian Congo ^{was} seething with excitement. There are thousands of natives working on the roads. It's virtually clean-up week for the entire colony. Harroy also is the man that appointed Marlier to his present position. You yourself would have enjoyed this brief visit with Harroy. Harroy was a former National Parks director, at Garamba Park where Marc Miché now holds forth and first of all a zoologist. His present appointment and departure for Ruanda was ^{on a s/holiday} ~~a half day affair~~ just two months ^{before} ~~ago~~, and was made, I ^{was} ~~am~~ convinced because ~~they wanted~~ a man of his personality and intelligence ^{was wanted for} ~~in charge here when the King arrived~~ ^{is} ~~at~~ ¹⁰.

Sunday morning the 22nd ~~we got away after packing up at 10:00~~
~~a.m. after having a last round of coffee with the Marliers,~~ ^{we} ~~by 10:00~~
~~I've imbibed enough coffee day by day to see me through the rest of life~~
~~if I never touch another drop.~~ ~~We pushed right through to Astrida where~~
~~where~~ Baker and young Sexton had gone from Mulungu ^{and Bukavu}. Over-
 nighting in Astrida, we made ~~Gabi~~ Gabiro (the Kagera National Park)
 at 6:45 p.m. and darkness. Because of need for more time to get
 packed at Entebbe from which place the specimens and outfit are being
 sent home, rail to Mombassa, ship to New York, ^{as it turned out} ~~we had~~ moved up our ^{Fortunately}
 schedule a day. So it was we were not expected at Gabiro until the
 next day. ^{Here} ~~Again~~, Dr. van Straelen's letters provided the open "sesame."
 Not only did the director of this Park, J. Haezaert, have us to cocktails
 twice and to dinner but his wife saw to it we were provided with a very
 complete luncheon for a next days all day tour ^{and photo} of the Park.

Sept. 8/55

Dear Bruce and Mrs Bredin,

~~I have~~ A brief An
acknowledgement of the
happy event that I wished
to write two days ago.
Little girls are awfully
sweet additions to any
family and I know ~~the~~
Antonina will be just
what do all of you.

I shall be sending
you shortly a little "rattle"
the kind that proved
so useful and appropriate

to all our youngsters and
others of our friends;
but I've been unable to
get it engraved for love
or money before some
time next week. That's
why ~~this~~ this note was
delayed — in hopes that
I ~~could~~ could.

Best of good
luck and good wishes

Sincerely

L. Alder

For the Schmitts

Box for come
Schmitt

2	ivory figurines	
	8 in tall	450 ea
	450 ea	900
1	wooden drum	
	12 in tall	450
3	wooden plaques	
	for lot	320

Sexton

2 elephant high lamp
shades

700 ea

1400

2 ivory alligator
for the pr.

200

1 ivory figurine

450

Waldo L. Schmitt

Declared in New York on
entry 6 Small stone
Scarabs set in gold
For lot. 27 00

12,9,6

bought in Khartoum

10 Small earthen ware,
coffee pots each
with cloth ring to
hold them at 10 P.T.

ea

100 P.T.

Instrument B

The chests contain my
collecting ~~equipment and~~ ^{equipment and} work
clothes, natural history
geological specimens and
soil samples, books and
papers collected, or given
me by scientists abroad

3 or 4 tanks specimens
in alcohol-formalin mixture

In box to come

For Figurine 450

2 Ivory warriors @
450 ea 900

1350

~~3400~~

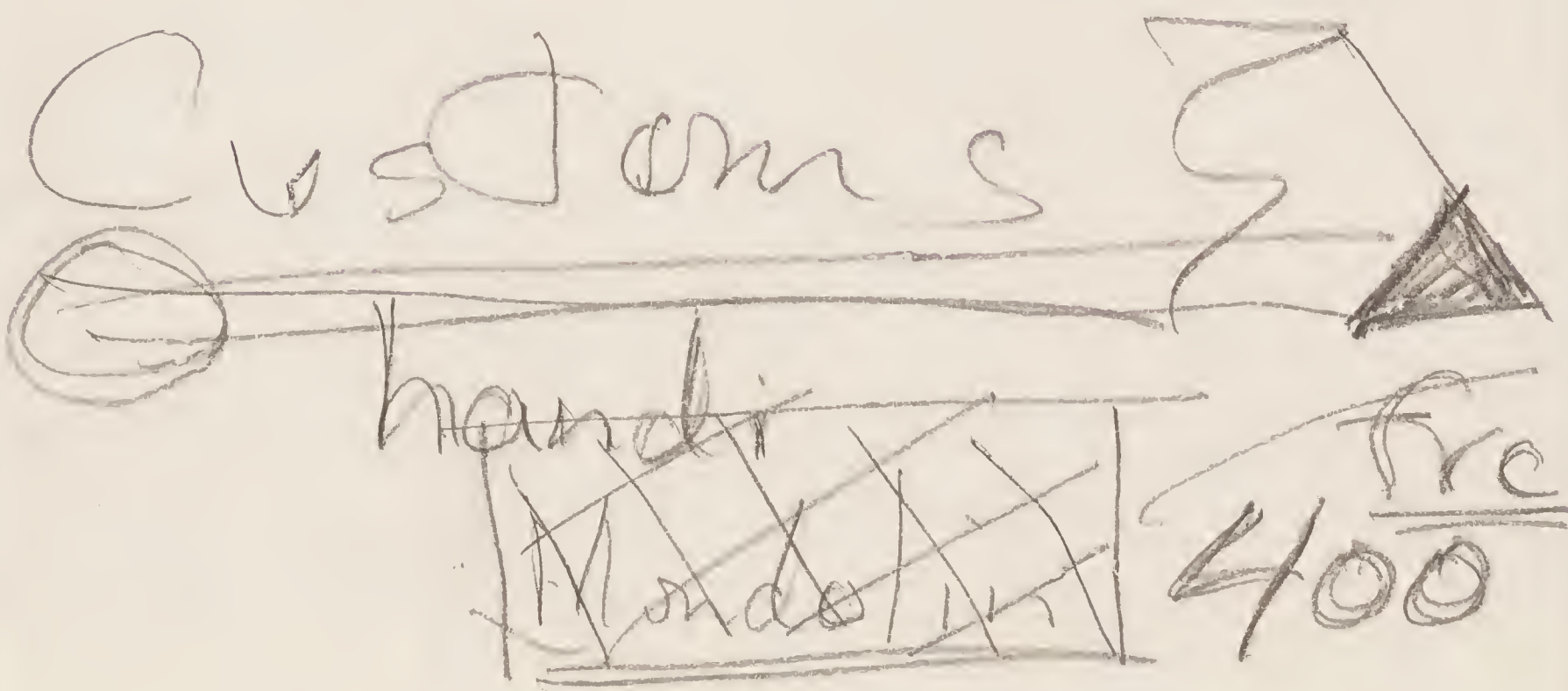
Bundled tools 180 fr.

Declared an entry in
New York

6 stone scarbs set in
gold purchase price for the
lot \$ 27 00

10 earthen ware coffee
urns with supporting cloth
rings @ 10¢ Tea = 1 SE
= (\$3 00)

Customs



handi

~~Model~~

fre
400

D. S.

nothing has been
said in your letter
of this carbon of
the Brekin trip.
As mentioned in
the Annual Report

attach to excerpt 12
of Ann. Rept see carbon
pp. 2-4

△

Through the generosity of Mr and Mrs Bruce Bredin of Greenville, Delaware, and because of their interest in the natural history of far off places, the Smithsonian Institution was enabled to undertake an investigation of the largely unknown and ^[? little studied] unstudied plant-mites fauna of the Belgian Congo, and to collect specimens of the other smaller animal life of ~~the~~ central Africa. Shrimps, crabs, fishes, bats and other small mammals were taken. Samples of soil

2
were gathered throughout the trip for eventual
antibiotic assay, and blocks of lava from
recent volcanic eruptions, one as late as
1953 ~~blocks~~ secured for the department
of ~~geology~~ of the National Museum. Insert 3

~~The expedition was in the field some~~ 29
~~67 days~~ next sheet 4

The field party which assembled in Leopoldville Belgian Congo, Apr. 8-11, consisted of Dr. Waldo L. Schmitt, head curator of zoology, leader of the expedition, Dr. Edward

(3)

So far as practicable a photographic record was kept of the expedition's operations, and observations, ~~of the invertebrate fauna~~ and the larger, Through the courtesy of the Institute ~~et~~ des Parcs Nationaux in Brussels and particularly its president Dr. Victor van Straelen, an honored friend and correspondent of the ^{Smithsonian} Institution it was possible to photograph ~~much~~ ^{many} of larger, characteristic so-called big game animals inhabiting

The great national parks, of the Belgian Congo, on the route and wild-life refuges of the expedition, the Garamba, Albert and Kagera National Parks. ~~Scientifically profitable~~ ^{Visits} were paid also to the leading ~~scientific~~ ^{medical and agricultural} research stations, a main ^{Leopoldville} ~~ruined~~ by the government including those at Tangambi, Nioka, ^{and} ~~Uvira~~ ^{Bukavu} ~~and~~ ~~several~~ ~~other~~ ~~stations~~ ~~at~~ ~~Gangala~~ ~~na-Bodio~~ ~~and~~ ~~the~~ ~~hydrobiological~~ ~~station~~ ~~at~~ ~~Uvira~~ ~~at~~ ~~the~~ ~~northern~~ ~~end~~ ~~of~~ ~~lake~~ ~~Tanganyika~~ ~~were~~ ~~most~~ ~~rewarding~~ ~~also~~ ~~being~~.

W. Baker, acarologist, on loan from the ⁵ U.S. Department of Agriculture as ^{plant-}mite specialist, and Dr. Roy Lyman Sexton, Washington D.C. physician, ~~and his son Roy Lyman, Jr. as photographer, and as medical consultant, and photographer,~~ ~~with~~ assisted by ~~his son~~ Roy Lyman, Jr. as micro-photographic specialist.

About 50 days ^{travelling by auto, except for a plane flight from Leopoldville to Stanleyville} were spent principally
in the Belgian Congo, and the mandated
territory of Rwanda-Urundi, 4 days
in passing through ~~the~~ British
Uganda Territory, ^{in order to} ~~to~~ ship the bulk
of ~~the~~ collections ~~and film~~ out of
Kampala, ~~by~~ and to reach the head
of navigation on the Nile at Duba.
~~It took eleven days to traverse the Sudan by~~
and ~~it~~ is the Sudan, descending the Nile
^{The eleven days in the} by steamer from — to Kosti,
and ^{by train from Sallal} from Kosti to Wida Halfa by train

~~Travelling by auto, truck, plane and~~
~~boat,~~

and 8 days in Egypt, by ~~boat~~ ⁴
~~and train~~

visiting the temples and tombs of
the Kings at Abu-Simbel, Karnak
Luxor and Thebes, and the Great
Pyramids ~~at Cairo~~ and the Samed

~~the~~ Cairo Museum at Cairo. ^{where}
The expedition ended ~~on June 17~~ ^{the activities} were concluded in June 17. ^{known}

The ~~granite~~ ^{granite} quarry at Assuan, ^{from} ^{three} ^{obelisks} ^{the}
whence came the ~~stone~~ ^{red granite} which the ~~Crested~~ ^{needle}
needle in ~~the~~ Central Park, ^{standing} in Paris, London
Central Park is New York. The collections shipped by train
from Kampala to Mambassa (over)

British East
Africa

transport home are expected ~~early~~ ^{same} time in July

Shipped out of ~~Kampala, Uganda~~
~~as about~~ by train to ~~(the port)~~ Mombassa
The ^{bulk} of the collections made in the course
of the expedition are still at sea at
this writing.

Wooden head	400
wooden fish	50

2 ^{40 + 50} native beads	90
1 Pygmy stool	300
2 mats	125

Raffia team 2 @ 35	70
--------------------	----

Arrow perhaps. to	200
2-3 bows at 40	120

2 undershirts @ 40	80
--------------------	----

1 pc. cloth.	180
--------------	-----

Handful of small 'ivory' pcs.	400
-------------------------------	-----

2 bracelets @ 75 ea	150
---------------------	-----

Pygmy bows & arrow	45
--------------------	----

Common arrow	30
--------------	----

3 wooden plaques	320
head	5

2130

Memo:

1

At one time you showed me a quotation ^{for} for our trip which included chauffers ~~for~~ the autos we were to have. At that time we debated whether or not ~~such~~ ^{the} ~~chauffeur~~ ^{passenger car} spoke English, as none of the members of the party spoke French. I had ~~hoped to get~~ and so, as I recall it I "fell" for the guide proposition which ~~had been~~ ^{II} interjected into the picture by my wish to have Thornton along (because of Mark Evan's enthusiastic report on Thornton). Well, as you know, Thornton felt he couldn't get away, and I accepted a substitute, ~~but~~ But meanwhile I ~~got~~ ^{received} a Congo tour circular issued by the tourist bureau for the Belgian Congo in which Thorn. ~~to~~ ^{was} down for providing "delux" cars with European chauffers, well, that's what I got, but I need to know more of what he quoted you folks ^{regarding cars, chauffeur, and guide} ~~series of quotations~~ ^{and dates of quotations} rendered you.

Also, I assume that his quotations

999

500
150

1649

482 ⁸⁰

640

250
2

500

35

1111
1111

290/2
145

by Thornton

included cost of lodging and meals for every day of ~~the~~ tour. ~~But~~ we settled upon, and for which he quoted prices ^{had been figured on} ^{by US} ^{expected} ^{by Thornton}.
No ^{mention} ~~was~~ ^{made that} ~~said of~~ free accommodation ^{anywhere}. It is true ~~I expected~~ ^{that} later, after quotation ball had started rolling, ~~that I requested~~ ^{that I requested} to get guest privileges at ~~the~~ several of the Belgian ^{scientific} research stations in the Congo, ~~but~~ ^{with the understanding that we would pay the same time} ~~paying the usual or~~ ^{current} ~~fees for such~~ ^{accommodations and} lodgings. Such fees, I gathered ~~were~~ ⁱⁿ ~~from~~ ^{from} literature available to me, were ~~in effect~~ ^{paid} by accepted guests and were offered ^{by US} ⁱⁿ letters requesting those privileges. My feeling ^{was} ~~being~~ that the ~~cost~~ ^{charges for} the hotel or other accommodations furnished by Thornton would more than offset any ~~charges~~ ^{expenses} we would incur by going to research stations instead of hotels. In ^{his} Thornton's letter of March 3, ~~he~~ ^{after quotations had already been submitted} ^{Thornton wrote} ~~stated~~, "Guest house privileges requested by you will not complicate matters as, in any case, ⁱⁿ ^[3] the place you mention, with the exception of Bukavu (ex Costermansville) I would myself have requested these, because no hotel facilities exist in

These out of the way spots".

43

~~New~~ It so happens that ~~at~~ ^{one} some of these places we ~~were expected~~ ^{had} to pay ~~for~~ meals (perhaps including lodgings) and fees to ^{the} help, and in one case a sum for the ~~boys~~ ⁱⁿ "elephant boys" in lieu of rent. In ~~three~~ ^{one or several} places we furnished our own food as Thornton's chauffer ~~failed to~~ ^{did not fully} carry out Thornton's ~~own~~ ^{his} instructions to ~~him~~ ^{it} to provide or secure ~~the necessary food~~ ^{for its purchase}, at least we paid the bills. In one place, Ruindi Camp, ~~it was free~~ when I wanted to pay, nothing was accepted except 200 frs for the house and tuble boys. Surely ~~we paid~~ in our advance payment ^{we paid for} the usual charges made all tourists at this place, ~~but~~ ^{however} after we got there we were treated as special (free) guests. This certainly was not anticipated in the quadri- upon which ~~your charges were based~~ ^{the cost of the trip was}.

based, or by ^{us} ~~ourselves~~ ^{when we} who offered to pay the usual or current charges. In all our ^{letters to the directors of the establish.} ~~communications~~ with ^{every} ~~one~~ ^{ments} concerned. Therefore, where we were charged nothing, some rebate is due, and where we paid charges some refund ~~is due~~ could well be expected.

~~I have already~~ ^{briefly} discussed these matters with Mr. Thomson for our stay in Leopoldville. ~~To begin with~~ In chronologic order these instances or items work out as follows:

// When I met Mr. Thomson in Stanleyville, he ^{inquired if} ~~asked~~ ^{had} ~~we~~ been provided with an auto each day of our stay there. I said why no, no one told us. ~~I had not expected it.~~ However he said he made such arrangements, and was surprised we hadn't had the ^{use of} ~~car~~. I asked him how much ~~was~~ ^{cost} allowed for ^{did} ~~a~~ such a car, and he ^{replied} ~~said~~ \$18 a day! ~~Therefore~~ ^{therefore}

and gave him a listing down to and through Bukavu much as ~~it is set out~~ recounted here. The copy of what I gave him is still ^{en route} ~~to come in~~ with my shipped papers. However, ~~this~~ ^{statement} is in fairly close agreement with the one I left ^{with} ~~him~~.

~~We~~ ^{we} hired taxis for all our errands and going about except for the one half day sight seeing trips furnished ^{us} ~~as noted in~~

The taxi furnished for the trip to Bukavu was the same as the one furnished for the trip to Leopoldville.

15
Can we not expect a refund of \$10
a day for 10 days less two half day
trips. ^(over) Also we were booked, he ~~thought~~ ^{said}
at the Memmling Hotel and was surprised
that we ~~were~~ stayed in the Palace, a
less expensive place. ~~I have~~ I believe
we were better suited to, and accommo-
dated in the less fancy place and would
on another occasion pick the Palace
over the Memmling which I never
did see. ~~Be that as it is~~ I only mention
this, not ~~in case~~ for any adjustment
of charges but because I've just
been forwarded a bill for our
Palace meals and lodgings. ~~I have~~ ^{written}
the Atlantic Over Seas Corporation
that I've turned their statement and
letter over to you. ~~Yours~~ ^c

myself

(Carbon enclosed)

In this connection the Leopoldville
Tourist folder (yellow, I believe I got my
copy from you) has a quotation ~~of~~
~~500 francs per~~ for taxi hire by the
day of 500 francs which figure I
was told locally ^{is now about} ~~is at~~ 800 francs
a day ~~& that~~ ~~\$~~ (16.00.)

~~should now be raised to~~

Turn back
to p. 5

After we got together with Mr. Thornton in Stanleyville. He came to meet us, I had not expected him. He persuaded us to forego the Ponchierville - Biondo - Muniee part of our itinerary, which did give us extra ^{and} much ~~needed~~ ^{welcomed} time in the Stanleyville area (but it also saved a lot of wear and tear on cars, and ^{also} gas); I ~~make~~ ^{have} no ~~real~~ ^{objection} to this ~~circumstance~~ ^{circumstances}.

Next, over May 23 - 25, ^(2 nites lodging) we went to Yangambi, being taken there by the Station auto. This ~~at~~ likewise saved ~~the~~ ^{Thorn} gas and ~~wear and tear on~~ ^{running} this car and truck over none too good roads. Be as that may, we ~~offered to pay~~ ^{inquired about the payment of} our board ^{bill} in the dining hall, where the ~~guests of the station take their meals~~ ^{we} and were rendered a bill for 2844 frs; ~~on~~ ^{this} top of which we paid tips of 60 francs to house & table boys. ^{Total 2904 frs} This bill is less extras that we paid separately. (Apr. 29 - May 1, 2 nites lodging)

4. For our two ^{days} ~~nights~~ at Gangala-na-Bodion we had to provide food which amounted

This was
to 999 frs bought in local ^{native} cantina; 7
~~with his and his~~ charges were checked
by Thornton's ^{European} charter, Oscar Lagerström,
~~who~~ ^{he} can certify to the correctness of these
charges, and the fact that the man
with whom we dealt at the station,
Curt Cl. Corneil d'Elzins, said 500 frs was
acceptable in lieu of rent, over and

(for the elephant boys)
above what the cook and house boy
received in tips, 150 frs, making 1649
franks the total cost of ~~the stop~~ ^{stopping} here.
We did cause them a lot of inconvenience
~~moving~~ moving in cots, mosquito nets
etc.

^{Camp} May 9-11 (2 nites lodgings)
At Ruiradi ~~every thing was free~~ ^{2160 frs.}
~~do as~~ ^{Based on} ~~the posted schedule~~ ²³¹⁰
~~of charges~~ ^{this would have amounted at least to} ~~the equivalent of~~ ²³¹⁰
franks ~~was~~ saved out of cost of the tour.
Broken down these ^{particular savings} ~~charges~~ consist of: (one)

Insert ^{Lohung for Koto p. 8}

At Lwiro, May 14-17 (3 nites lodgings)
cost lodging ~~was not mentioned~~ ^{was not mentioned} and when I
asked for food bill I was told by the
(lady) caterer that it would be ^{mailed} ~~sent~~
I said either send it to me or Thom ^{he}
but to date I have not received one

Lodgings for 4 @ 250 for 2	500
Lodging for 1 @ 60	60
2 Breakfasts for 5 @ 35 ea. (10 x 35)	350
1 Lunch for 5 @ 70 (5 x 70)	350
2 Dinners for 5 @ 70 (10 x 70)	700
Tips guide table and house boys	200
(soda and tea extra, not included)	<hr/> 2160 _{rs}

26/10/87

Tips paid here were nominal. Should we not be rebated what it would have cost to ^{over}

~~At~~ I shango, May 6-7 (1 nite's lodging)
we bought food, as I recall it, to
the amount of 426 francs) and paid
tips ~~sugge~~ (I believe, this ^{was} in list for
Sexton Thornton, but I have not yet been able
to get a hold of my copy ^{and it} This included
food for his charter as well as the
4 of us. ^{I also} paid ^{the} tips suggested
by ~~the~~ ^{his} charter: ~~about 100~~ 100
francs to house man and cook, ~~to~~ guides
50 and 60 francs, ^{raising} ~~making~~ the total
of our ^{actual} expenditures ~~here to~~ 636 francs.
For lodging there was ^{apparently} no charge.

At Uvira, May 18-22 (4 nites, lodging)
Thornton's man (charter paid for 4 meals
for two of us, as I recall it, at 80
francs each, 360 francs. ^{but} ~~and~~ we got
~~either no other meals free, or bought~~
~~paid several dinners~~ ^{above this} got other meals free,
^{Breakfast was furnished at the station} ~~other meals, in part,~~
~~meals were taken at the local hotel, so if~~
we had not been given guest privileges
at Station, Thornton would ~~or even~~ have
had to put us up in ^{the} hotel. Tips to
Station room boy and cook amounted
to 140 francs ~~but I think~~ ^{are} ~~we are~~ due

put us up at a Bukavu hotel for this
period?

19⁹

Some reduction of charges ~~here~~ for
free lodgings and ~~breakfasts~~ ^{meals here} as elsewhere ^①
~~in this establishment~~. If we paid in advance
for 51 days meals and lodgings, ~~the savings~~
should ^{not the savings} accrue to us rather than ^{to} Thomson ^②.

// At Kagera Park, May 23-25 (2 nights,
lodging) Thomson's man furnished food
or rather paid for ^{the} groceries. This time
lodgings were apparently free, and I paid
houseboys cook and guide ~~22~~
~~to~~ 220 francs ~~for~~ in
lieu of rent and service.

~~At the Lake~~
~~Because of~~

// As we had a lot of packing to do
before we left for Duba, we skipped
~~Mbarara~~ ^{Mbarara} (where we ~~were~~ to have spent
a night on the ~~road~~ ^{way} to Butembe ~~with~~
Thomson's ^{suggestion} ~~approval~~) and so were due
two nights at the Lake Victoria Hotel ~~in~~
~~Butembe~~, but ^{however} as our Duba flight reser-
vations did not materialize, we had to
skip the second night in ^{the} Lake Victoria
Hotel and at least for the one
night's days meals ~~less breakfast and~~
one night's lodging ^① ~~there~~ should ^{there not} be
a ~~redundant~~ ^{or rebate} ~~however we stopped at~~

110

~~Sulu where charges were less and~~
~~amounting to but~~

¶ The failure of the Hunting Clan air
line to ~~have~~ ^{reserve} place for us set us
back \$350 ~~for~~ ^{in the emergency} ~~auto~~ ^{line} ~~fare~~ to Juba.
This will in part be offset by refunds
we can get on ^{our} air tickets ~~for the~~
~~Entebbe - Juba flight.~~

¶ ~~As~~ I've already mentioned, ^{that I would} ~~that~~
like to get back what we paid out
at the several research stations for
food ~~and~~ and lodging and ^{receive}
a rebate ^{on the} ~~of the~~ original ~~cost~~ ^{we paid} ~~for~~
to the extent of the ^{savings} ~~made possible~~ by courtesies
~~sums we saved~~ ^{by the} ~~research~~ ^{extended} ~~stations~~ ^{granted} ~~we enjoyed~~ ^{us} ~~the~~
~~expedition in part at least.~~

I hope I don't sound presumptuous
in writing all this in this fashion but I
am asking that these matters be given
favorable consideration that some ^{reasonable} ~~adjust-~~
ment may be forthcoming.

Collected at Sar
in flight
scattered.

Sean Anmol
 Subena Guest
 House

Wazania / Fisher.

After departure

281
 2048

2230
 2190
 1967

2.81 (500.00 / 177)

500
 2.81
 500.00
 400.00

~~1753~~

751 - 58[✓]
168[✓]
195[✓]

752 32 or 33
38 or 69

753 - 55[✓]
97[✓]

804 - 55[✓]
10

832 - 1

852 - 73

1890
1863
26
1889

Paulis

52,595

Buying palm nuts Apr. 28 52635

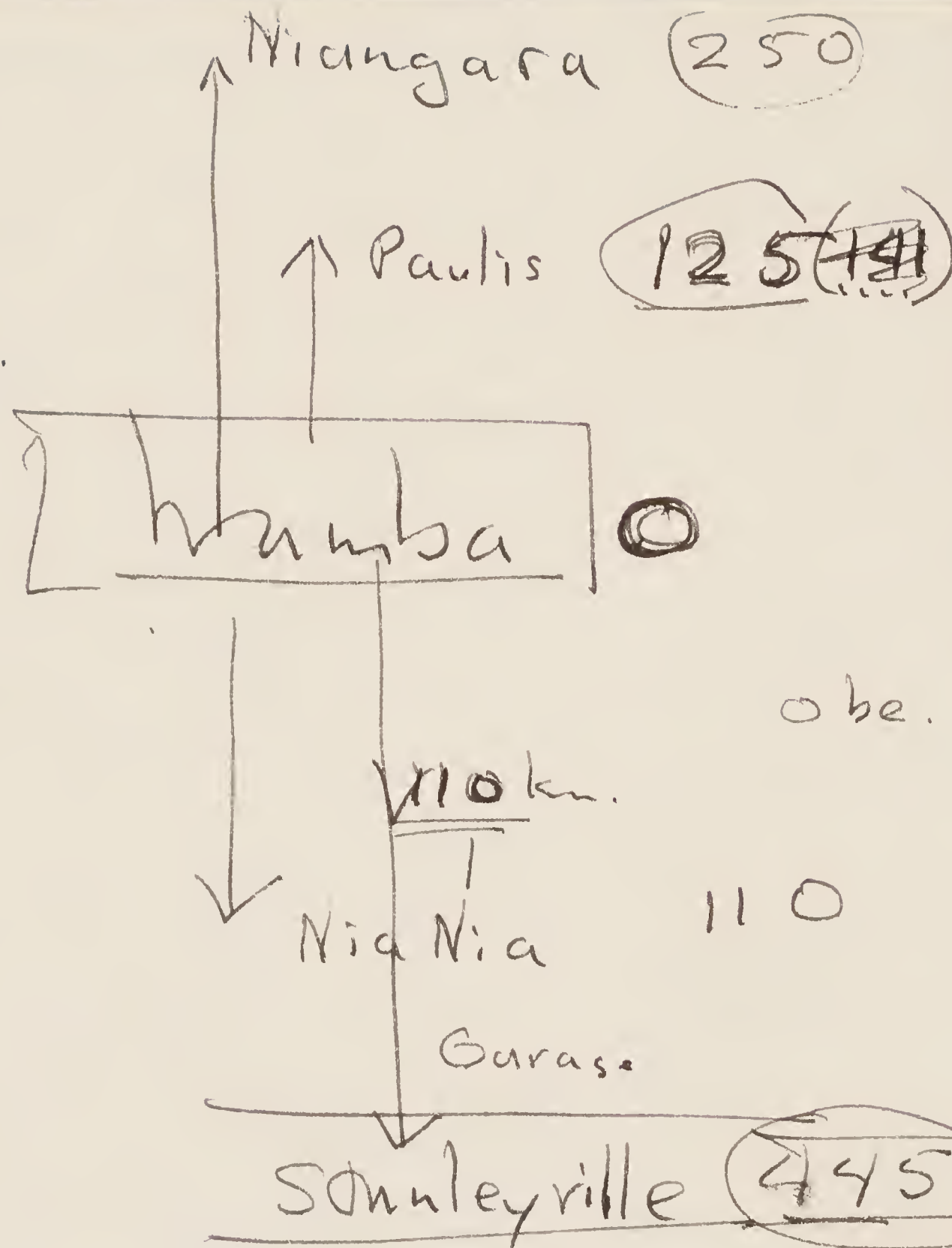
Bridge to Terr. Niangara 52666

round conical roofed houses 56695

Arr. Niangara

52752

obe to paulis.



52764

52488 Bridge
1/2 mile before Paulis

52571
52488
83
62

166
498

51.46 miles.

52439
52459

52410

52752 Stanley to Niagan
51970 = 695 km?
782 km. vs. 782

my reading

52328

52245

51970

Divira. 18. dm.

19

20

21

22

arr. Arriba.

5 9 0 5 5

6 9 7 5 5

8 2 8 7 5

6 9 7 5 5

Last kl. was on leaving Kagera

May 24

How far Entebbe to Gabiro
or Kakitumba

Gabiro to Kakitumba = 58 km.

Kagera. to Mbarara	210 miles
<u>M. to Entebbe</u>	<u>180 "</u>
	390 "

Lv. Kagera 56338
8 a.m.

6:30 a.m. 56205

Azrida kl. 55891

Azrida to Kagera 200 miles

56338
<u>55891</u>
449 kl.
<u>62</u>
894
268.2
<u>27714</u>

56205
<u>55891</u>
304 kl.
<u>62</u>
608
1824
<u>188.48</u>
189

56157
<u>36</u>
56193
<u>55891</u>
302 kl.

Lv. Stanleyville. ^{Astrida.} 55891 kl
51970 "

Distance Stanley to Astrida - 3921 "
 62

7842
23526
 2431.02 miles
 390 miles

Kagera Entebbe

2821
 200 miles

~~Entebbe to~~ Astrida-Kagera

2821
 450 miles

Entebbe to

3271 miles
 60 miles

3 days Stanley at 20 →
 Leopold.

60 miles
 60 miles
 3391 miles

Air to Stanley

~~3500~~

(109)

3400 by auto in Congo

days miles
 51) 3400 (66,6
306
 340
306
 340

Apr. ²⁶ Shunleyville to Nia Nia 208 miles
at km²² tropical forest begins.

km 123. Ferry across. I shopo bridge planned. 528 ft.
km 327 beyond Arakubi. Bridge bet. Shunleyville dist^{to} Kibali Ituri
km. 336 = Nia Nia giant trees up to 130 ft high

Kan Paulis to Bangala 200 miles

Bunia to Drumu 55 km

Kasenyi to Butiaba in Uganda
Bunia to Kasenyi & back 68 miles

MARCH 1955

Sun

Mon

Tue

Wed

Thu

Fri

Sat

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

Left N.Y. 10 p.m.

27

Arr. Gmuler

Arr. Manchester

28

Spent all day

29

Miss Edmonds
Gmuler
Museum

Left London

30

At 8:30
Arr. Entomological
Mus. 11:30

All day Leiden

31

dinner with
Boelens &
Baker

Arr. Leiden about 5 p.m.

DO NOT TEAR OFF
[Fold Leaf Back for Next Month]

UNITED STATES GOVERNMENT

22160

9 days Leo
no more than 58 lies

APRIL 1955

Sun

Mon

Tue

Wed

Thu

Fri

Sat

Visited Bulis
at home 200
Plange 200
all out with
Hugle & webers
Hugle left 11 p.m.

With Bulis
had lunch
with Forensen
Buliss
At 2 o'clock
Stue 3200
muller
Mr. Schat
Nymphenberg

Left. Arrived
5:30 p.m.
half
late
Arr. Brussels
4:30 p.m.
Hotel near 5 p.m.

At embassy
girl made date
with Van Straelen
for 11 a.m.
to Mus.
for movies
with Van Straelen
by Felix. Group
Museum in a.m.

Saw Coertman
& Coenart
new building

Train
Lft. Leiden 9:15
At. K. in Terminal
11:10 Lft for air
got to hotel
at 8:30
Some clouds
Sunny & bright
Landed about
11 a.m. at
by Yost
at hotel
about 12:30

Saw
webers
Ansler

light room
set 2nd half day
at customs
sat with
Mr. Greyer

Sunday's unpacked
Sexton's
arr. at noon
Hottest day yet

arr. at noon
Hottest day yet

Do 200s all
for 1000 fill
arranging
everything at
five re box

Do 200s all
for 1000 fill
arranging
everything at
five re box

Dinner at Yost's
with Lynham and
Morrison 5:15-12 mid

native market
Rain 1st half day

sound & film.
Saw 2nd
P.A.A. man
Barrah.

To Stanleyville
arr.

Ingenia
R. he
P. og
cr. p.
fish

Back to
R. at white

Boat with
d. h. o/s

Customs
out at 11:30

Pack to leave
after
Yancum

to Yancum
visited
Lubum

Some coffee, rubber
plantations, oil palms
Hydro...
Pond culture

Home from
Yancum
2 1/2 hr run
got back at 12 noon

Beniz Left
Stanley

Calif like
2000 + 1000

Dance 11:11 a.m.
Mott...
Left 1:30-4:30
in Niangara

6:30 Breakfast
to Gungala na
Bodio

to Garamba Ok
Mare Micha
Lunch Museum
Dile
mule
Fido

UNITED STATES GOVERNMENT

DO NOT TEAR OFF
Fold Leaf Back for Next Month

MAY 1955

72 71
14 14
308 284
71
44

Sun	Mon	Tue	Wed	Thu	Fri	Sat
<p>1</p> <p>Gungala to Niska 300 mi haul one sm. M. & T. near rain all night in Le Grand Hotel de Niska</p>	<p>2</p> <p>Niska Lab. to Bunia arrive 4:30 5 p.m.</p>	<p>3</p> <p>Kasenyi Mont. Noyo Lunch at Bunia but no service</p>	<p>4</p> <p>Mont. Noyo Thru lunch till 4 p.m. to Mt. Mungu arr. 8 p.m. he forget wonderful sunset passed up even if through trees.</p>	<p>5</p> <p>Mt. Mungu prepade + get posted and ready Cable Chief Warden</p>	<p>6</p> <p>Ly. for Isangai early a.m. start at 6:00 when 5:30 breakfast</p>	<p>7</p> <p>Back from Isangai to Beni from 7:00 Paled at Beni 3:45 p.m. Arr. Beni 3:45 p.m. in rain</p>
<p>8</p> <p>B. tenb. guest house 5 p.m. often fine place honey get</p>	<p>9</p> <p>Ly. 11:30 arr. 4:40 in rain</p>	<p>10</p> <p>In Rwindi forenoon after missed because of light Buerst Send Buerst & pups</p>	<p>11</p> <p>In Kasenyi by 4:30</p>	<p>12</p> <p>Baker got No. 12 from 10:30 to 11:15 st. spend on spec & packets</p>	<p>13</p> <p>Get lava from Ar. 8:00 L. Kisenye at 5:45</p>	<p>14</p> <p>See Jadin + Bredo IRSAC night since 6:30 to 7 p.m.</p>
<p>15</p> <p>chapin for supper Yink's for lunch Goco + 140 Ly. Uvira</p>	<p>16</p> <p>Pack lava Living mites taken tree leaf galls Alain Bombard Books lecture</p>	<p>17</p> <p>Mulungu for Uvira afternoon 2:50 p.m.</p>	<p>18</p> <p>Ly. Uvira after 7:15 p.m. get there 8 p.m.</p>	<p>19</p> <p>Ly. Uvira in Uvira at 10:15</p>	<p>20</p> <p>Ly. Uvira in Uvira at 10:15</p>	<p>21</p> <p>Ly. Uvira in Uvira at 10:15</p>
<p>22</p> <p>Ly. Uvira at 10:15</p>	<p>23</p> <p>Ly. Uvira at 10:15</p>	<p>24</p> <p>Day in Kagera Arr. Gubiro 6:45 Snake bite 10 a.m.</p>	<p>25</p> <p>Did not Arr. Entebbe 3:00 utter dark wrong side of road Send mailies & mail color photos</p>	<p>26</p> <p>Ly. Entebbe in Entebbe at 10:15</p>	<p>27</p> <p>Ly. Entebbe in Entebbe at 10:15</p>	<p>28</p> <p>Ly. Entebbe in Entebbe at 10:15</p>
<p>29</p> <p>Ly. Uvira at 10:15</p>	<p>30</p> <p>Ly. Uvira at 10:15</p>	<p>31</p> <p>Ly. Uvira at 10:15</p>	<p>DO NOT TEAR OFF Fold Leaf Back for Next Month</p>			

JUNE 1955

(tribes)
Maybe 12 languages, 50,000 people within 20 mile radius of Ler. Side Pallak.

Catholic Missions in this area operate on west side river

60-70 P.T. for vers. the skilled workers
4 P.T. per day for others but a get 6 P.T. a day
Sun May 29
Lake No. 1
old Sudd
Sudd
Papyrus Bor
Started May 30
Mon
Tue May 31

Wed
Papyrus ended
exc. tare on
1
T. for sail patches
tiny islets

Thu
Obail 7 a.m. girls left
Htar 5 a.m.
open country
2
Lul 4 p.m.
Kiser
dread at lunch

Fri
Catholic Mission in this area
operate on west side river
American on East side
Melut in night
Kaka
one horse
since
some
steals
3
prett. hot day
steals
same day

Sat
very hot day
Arr. off Kadi Bridge
10 p.m.
4
10 + 25

Arr. at Kadi
land 8:30 a.m.
get sleeper
reservations
and last breakfast
aboard
5

Arr. Khartoum
Lunch
dinner on
train
6
108
7
s. w. reeng

Drain
Lv. 11 a.m.
for
8
Arr. Khartoum

Kadok 600
7:30 a.m. (watermelons)
Muluk, boat left
9:30, 11:30 a.m.
Arr. Zaria
at 12 noon
9

marks end
of Nile people
10
Arr. but of
9 p.m.
dinner
11
Arr. at Selkella
8 a.m.
9-12:30 at
Hotel till 4:45
Train, Sam down

to Adm. office for
permit out 9:30 a.m.
before 10-12:30
at Khartoum, arrival
at 12:30
Lunch 3 p.m. to room
5 to Luxor temple
12
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Lv. Luxor
p.m. sleeper
13
14
late in
Arr. Cairo
15
pyramid

Climb
15
16
Lv. Cairo
11:55
p.m. Arr. Khartoum
5:45

Lv. Cairo
17
18
Arr. Khartoum
5 a.m.
Lv. Khartoum
2:45

19 20 21 22 23 24 25

26 27 28 29 30

Total people aboard
407 (including 66 crew
+ officers)
over 305 3d Class in
three barges / perhaps 40
DO NOT TEAR OFF 1st & 2nd
[Fold Two Leaves Back for Next Month]

JULY 1955

Sun

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AUGUST 1955

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Fri

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SEPTEMBER 1955

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OCTOBER 1955

Sun

Mon

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Fri

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24/31

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1954

1955

1956

[illegible]

FEBRUARY							AUGUST							
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14	15	16	17	18	19	20		15	16	17	18	19	20	21
21	22	23	24	25	26	27		22	23	24	25	26	27	28
28								29	30	31				

MARCH							SEPTEMBER							
	1	2	3	4	5	6								
7	8	9	10	11	12	13	5	6	7	8	9	10	11	
14	15	16	17	18	19	20	12	13	14	15	16	17	18	
21	22	23	24	25	26	27	19	20	21	22	23	24	25	
28	29	30	31				26	27	28	29	30			

APRIL								OCTOBER							
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MAY								NOVEMBER							
2	3	4	5	6	7	8	1	7	8	9	10	11	12	13	
9	10	11	12	13	14	15	2	14	15	16	17	18	19	20	
16	17	18	19	20	21	22	3	21	22	23	24	25	26	27	
23	24	25	26	27	28	29	4	28	29	30					
30	31						5								

JUNE							DECEMBER						
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27	28	29	30				26	27	28	29	30	31	

JANUARY							JULY						
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16	17	18	19	20	21	22	17	18	19	20	21	22	23
23	24	25	26	27	28	29	24	25	26	27	28	29	30
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FEBRUARY							AUGUST						
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13	14	15	16	17	18	19	14	15	16	17	18	19	20
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27	28						28	29	30	31			

MARCH							SEPTEMBER						
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APRIL								OCTOBER							
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MAY							NOVEMBER						
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JUNE							DECEMBER						
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19	20	21	22	23	24	25	18	19	20	21	22	23	24
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JANUARY							JULY						
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FEBRUARY							AUGUST						
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MARCH							SEPTEMBER						
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APRIL							OCTOBER						
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MAY								NOVEMBER							
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JUNE								DECEMBER							
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JANUARY

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FEBRUARY

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JULY

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AUGUST

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SEPTEMBER

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OCTOBER

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NOVEMBER

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DECEMBER

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JANUARY							JULY						
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FEBRUARY							AUGUST						
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MARCH							SEPTEMBER						
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APRIL							OCTOBER						
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MAY							NOVEMBER						
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JUNE							DECEMBER						
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JANUARY

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JULY

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FEBRUARY

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AUGUST

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MARCH

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18	19	20	21	22	23	24
25	26	27	28	29	30	31

SEPTEMBER

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APRIL

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OCTOBER

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7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

MAY

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6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

NOVEMBER

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18	19	20	21	22	23	24
25	26	27	28	29	30	

JUNE

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DECEMBER

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16	17	18	19	20	21	22
23	24	25	26	27	28	29

Cans

(No shut)

18 Gover. Cook.

19 Fisheries Shops Falls

(20) ~~Star~~ Collected shrimp

21. (1) Open. day

Friday

Yangambi.
Sat 23
Sun 24
Mon 25

[4 hrs] } Yangambi.

26 Early Nya Nya (5 hrs to lunch)
(2 hrs)

27 N. Paulis 5 hrs Lunch
(car service) be there by 10
Shrimp Leisure

(28) Dance. (2 hrs)
29 Niangara (small) no stop. (2 hrs) shrimp.

Fri 29 Gangala-na-Bodio (Norwegian Mission)

30 Full day at Gangala

Sun May 1 Nioka (sleep) 1/2 day there
2 Nioka Bunia in after noon

Radio Gram

Dr. V. van Straelen

Inst. Royal Sciences Naturales
Bruxelles Belgium

~~Thanks~~ Since leaving Leo ~~have~~ learned
must have special permit Governor
General to get into Gangula and
Garamba Park

Thank you for good word sent
Gangula, ~~but~~ ~~have~~ ~~now~~ learn resident
There sends word must have special
permit Governor General back in
Leo. ~~Can~~ Please intercede

Van Straelen wrote Gangula Garamba
Park man but ^{also} ~~he~~ must ~~also~~ have
special permit Governor General
please try hard ~~for~~

May 3 ^{Bunia. 530 630} ~~Gaseny~~ K at 2 p.m.
May 4 ^{May 4} Pymy dance 1 hr. dance 8 an danc
ask Kaya people collect. till lunch go cave
high before pull out after lunch.

Bats swarm in Even

Buddy shot bats

May 5 Mut. ~~do~~ fish in stream.

May 6 Muhunga. Shango 2 hr run.

Beni at 8 am

L.V. May 8 a.m. 13 miles Pymy village

May to 13

10-11

1 hr.

Beni for lunch

May 8 Lunch in Beni to Butembo } do 40 miles.
change of environment } after 3 hr run
after 4 hr run

9 in.

Butemb

130

6 hrs

5 hrs

730

do Ruindi.

May 10 in Park

after lunch visit

in Ruindi for lunch

Van Straelen

3 hrs

see Geologist, guide
talk about land.

Chief game warden

Van Straelen.

1953

flor

Chief game warden : Comdt. GILLIAERT

game warden at Ruindi : Mr. BAERT

→ RUMANGABO

with Van Straelen

May. 11 /v. early m. lv at 7³⁰ 5 hrs to Kis
time for lava.

Gen. General sent memo.
to

Phone: (MacGregor.)

II.

(Van Straelen re lava. wire
Dope ~~radi~~ their will no